

Fig. 1

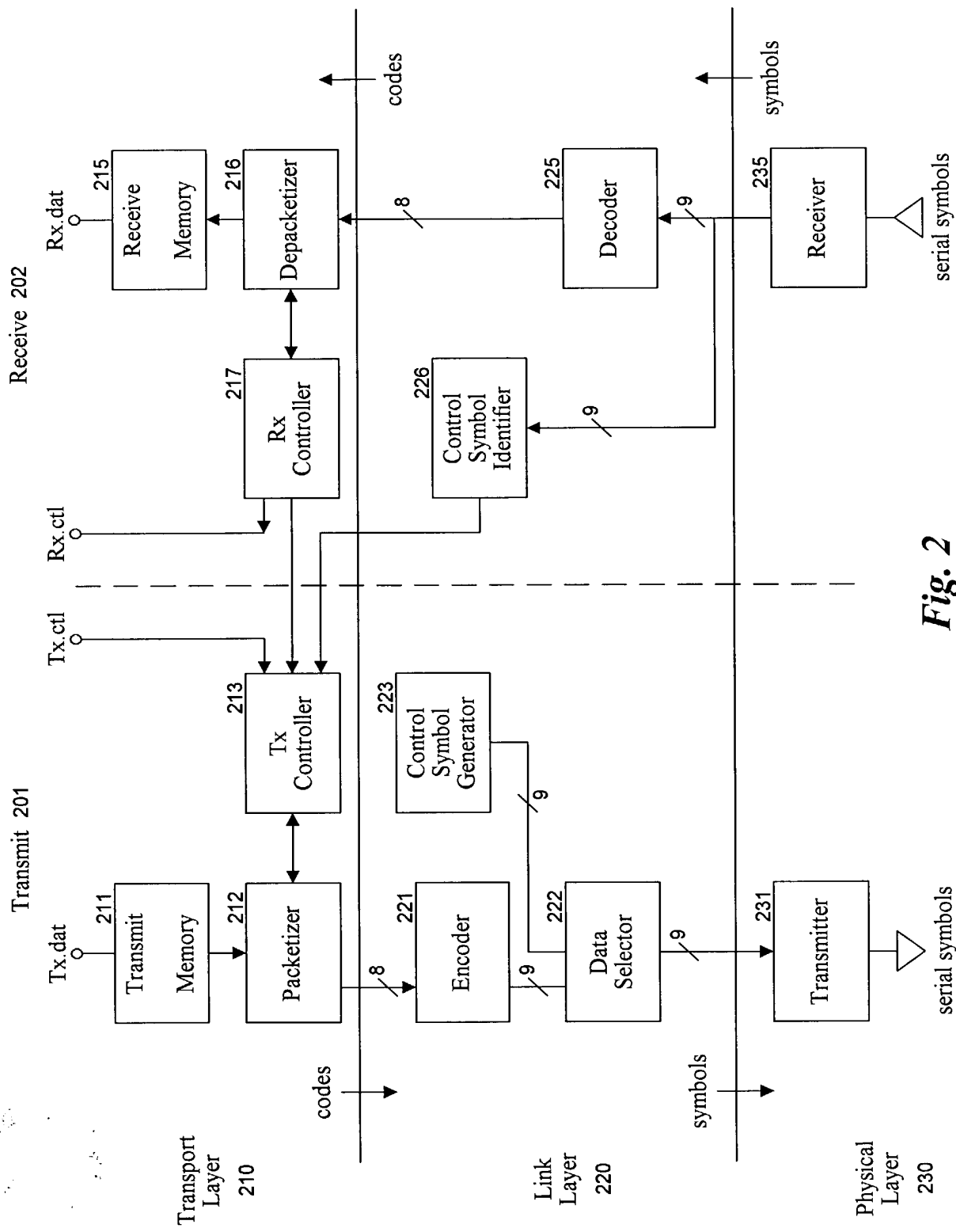


Fig. 2

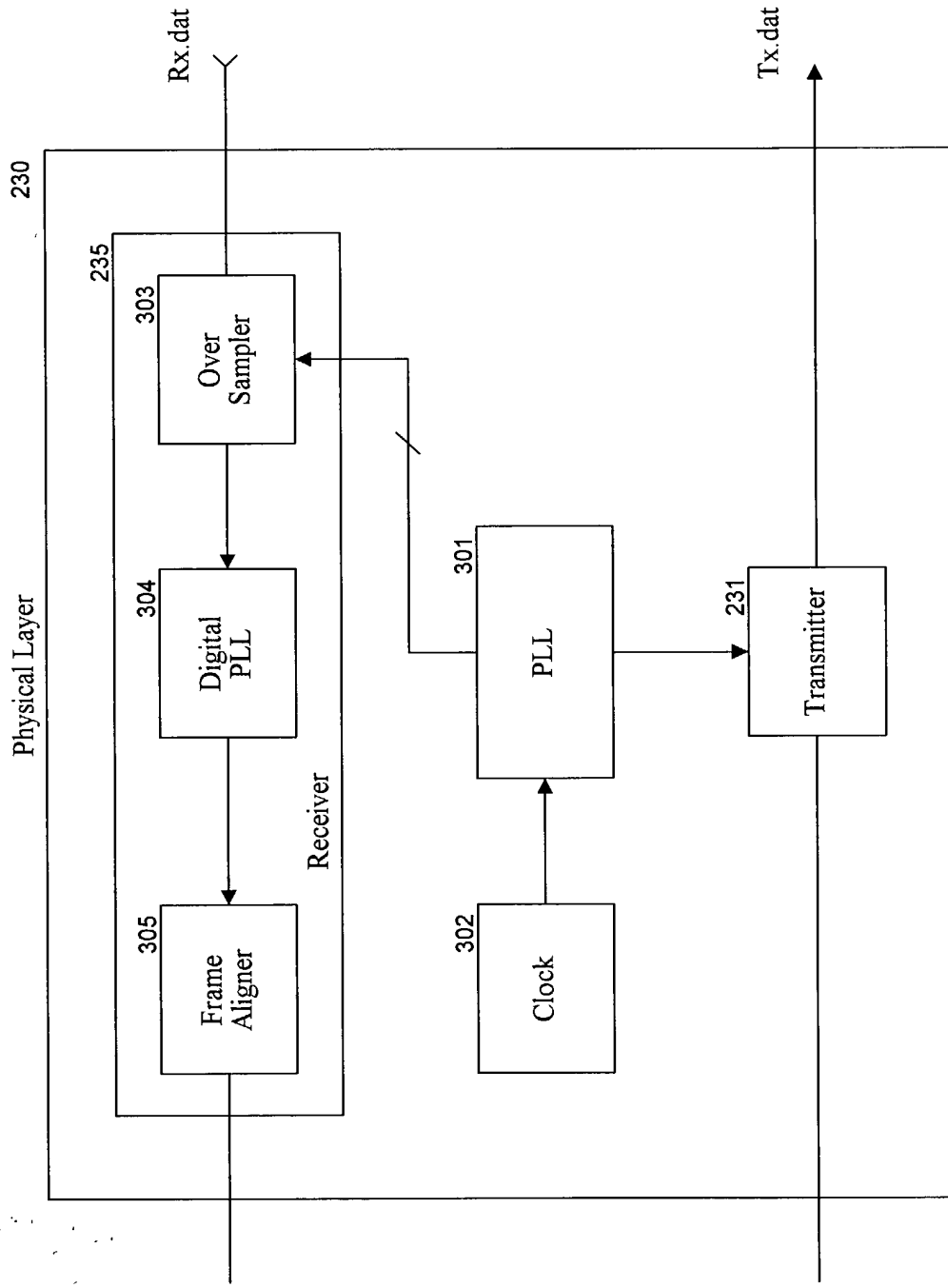


Fig. 3

Fig. 4

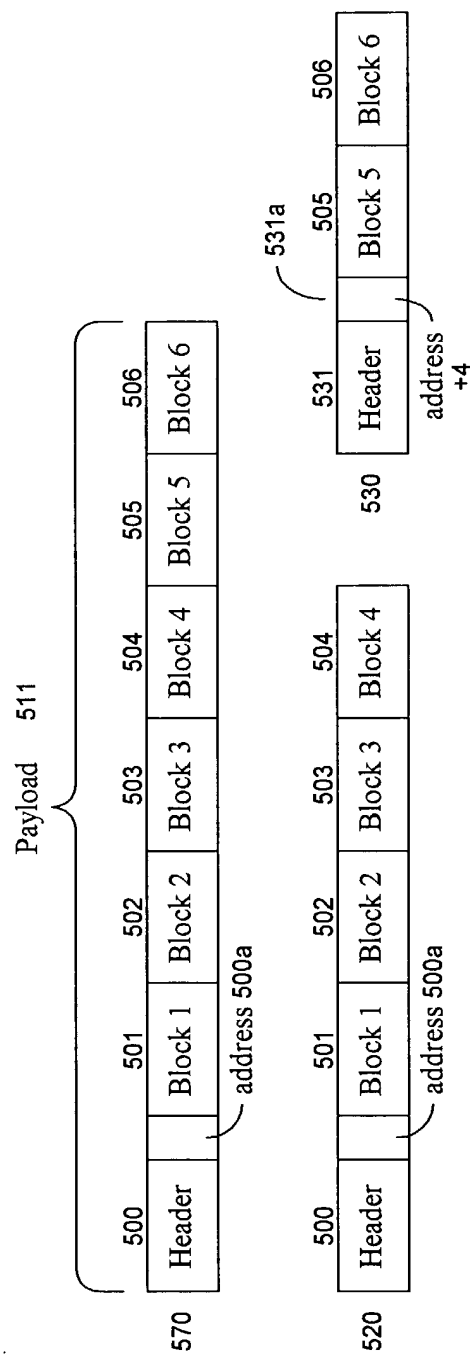


Fig. 5

2025-06-23 10:00:00

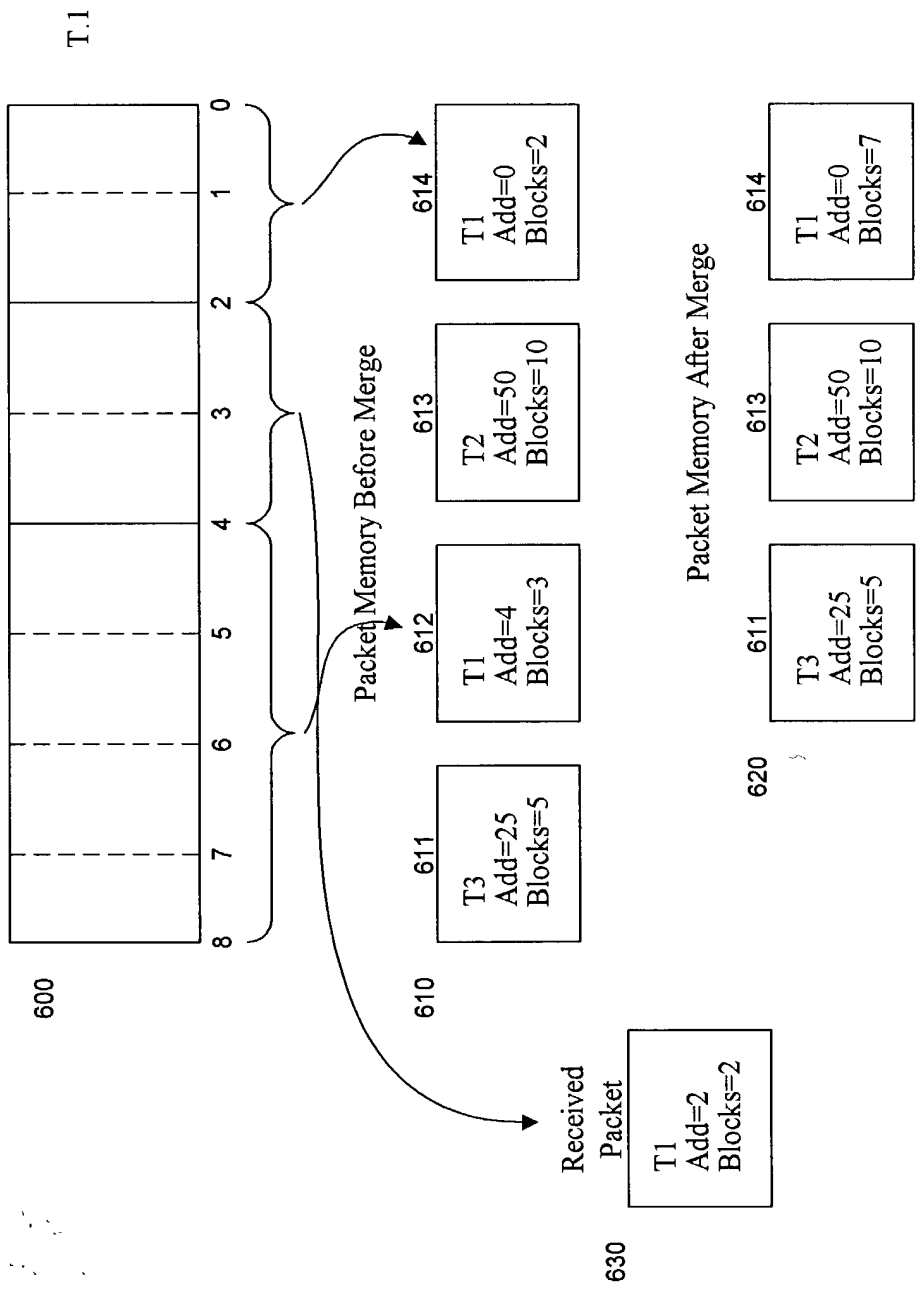
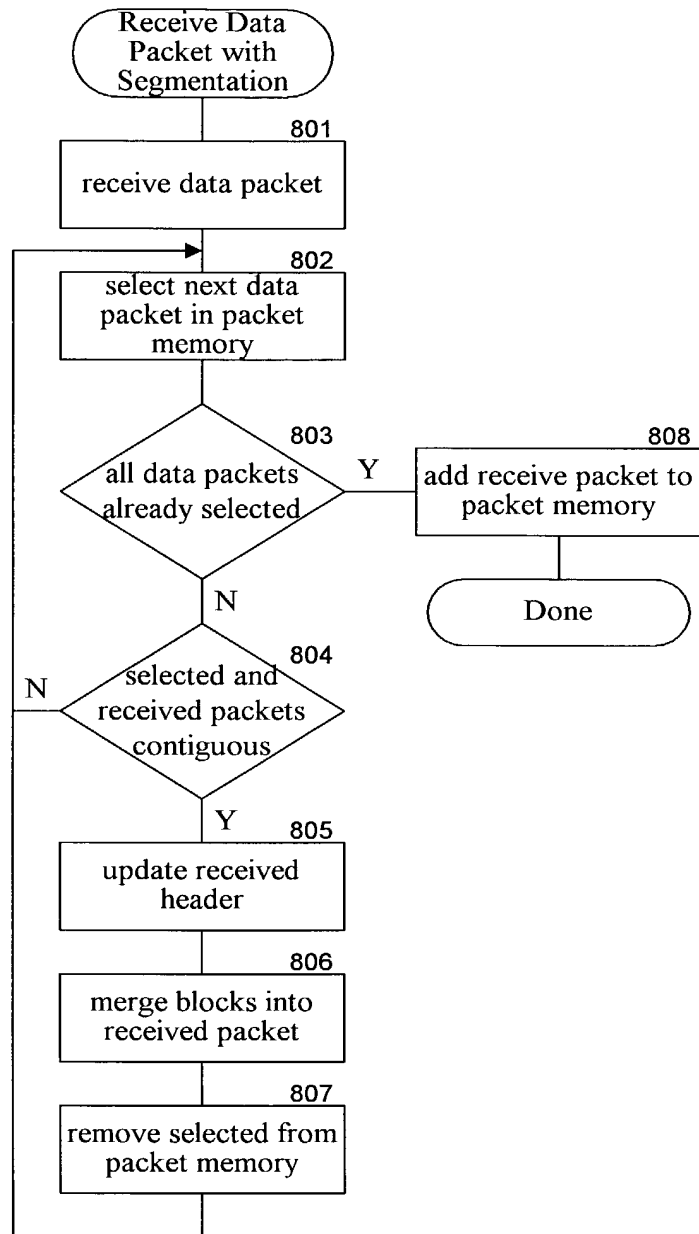
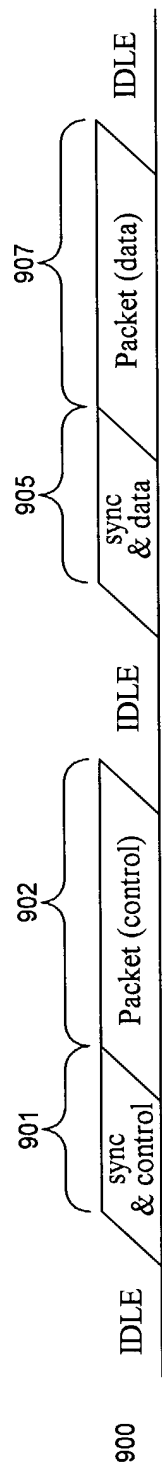


Fig. 6

Fig. 7

**Fig. 8**



sync & packet type

Fig. 9A

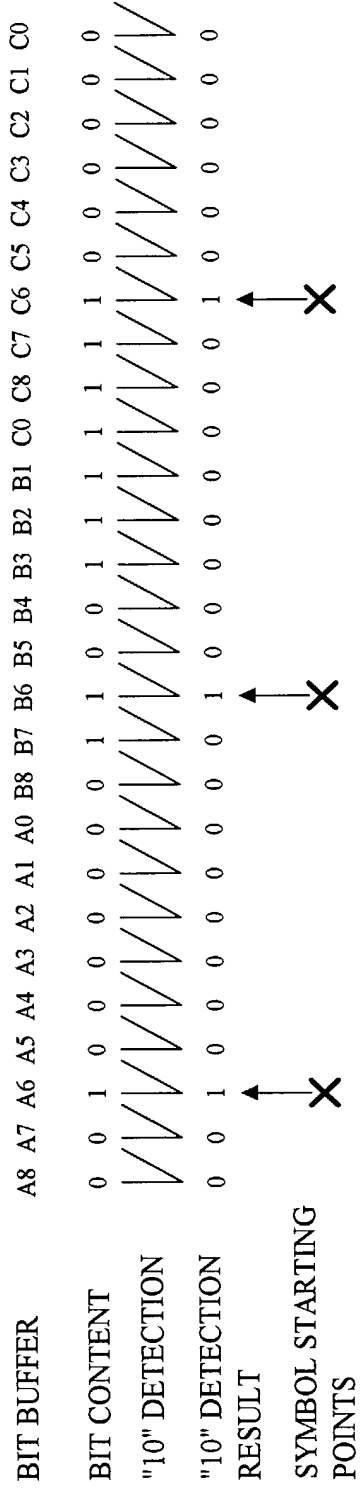
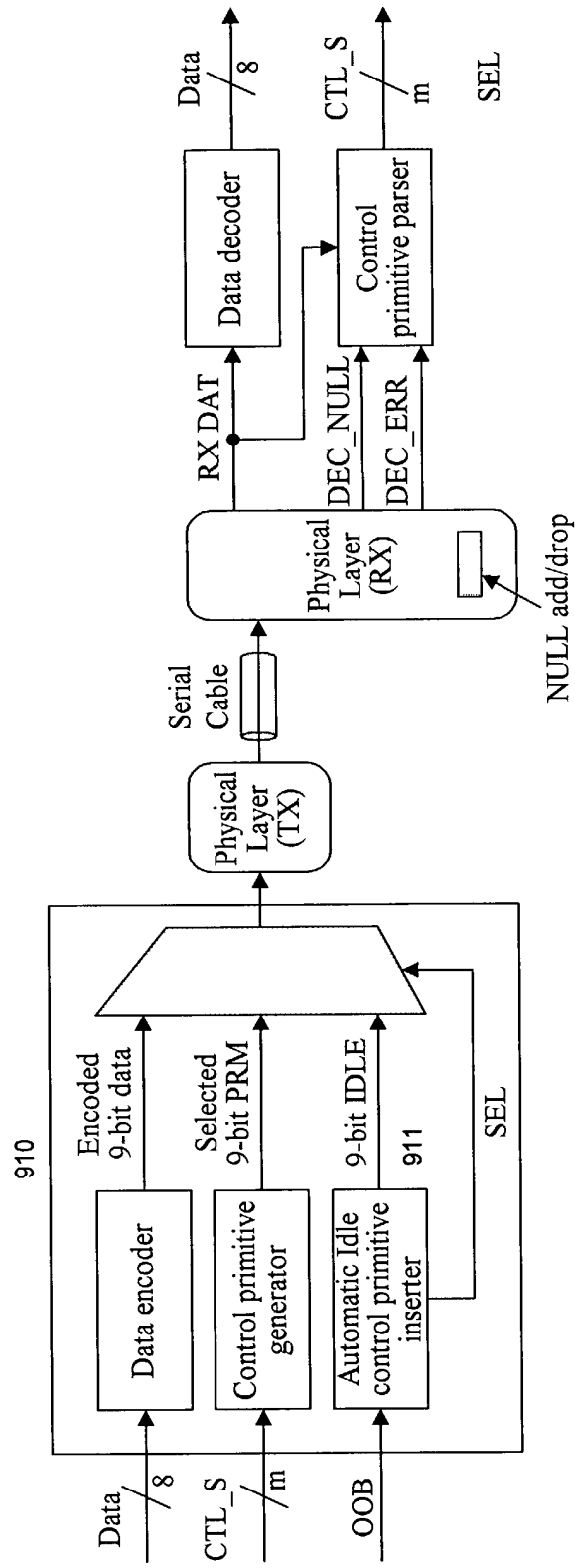


Fig. 9B



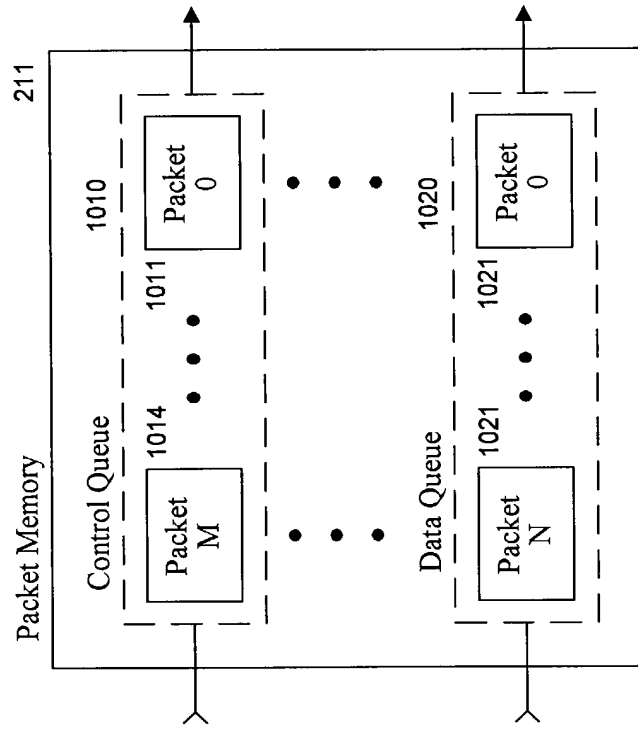


Fig. 10

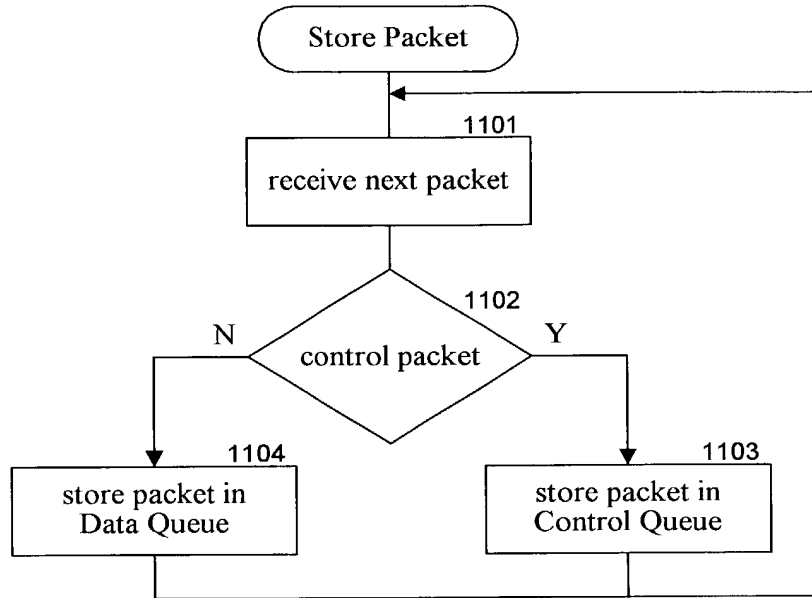


Fig. 11

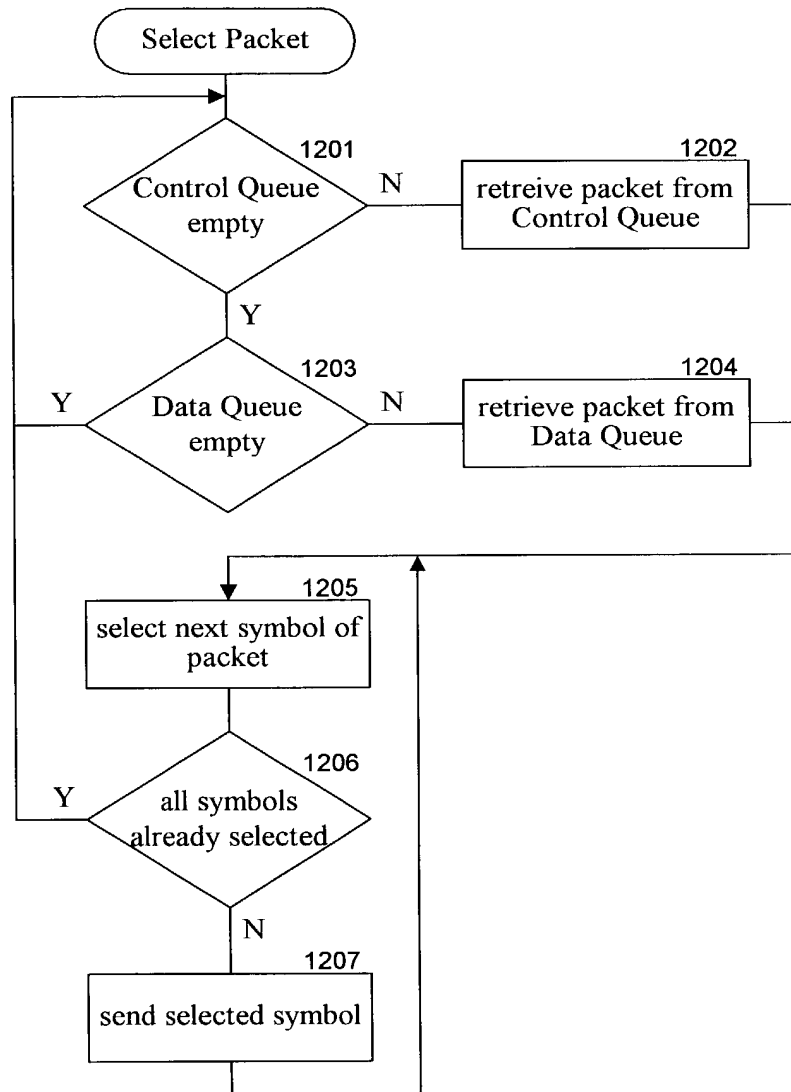
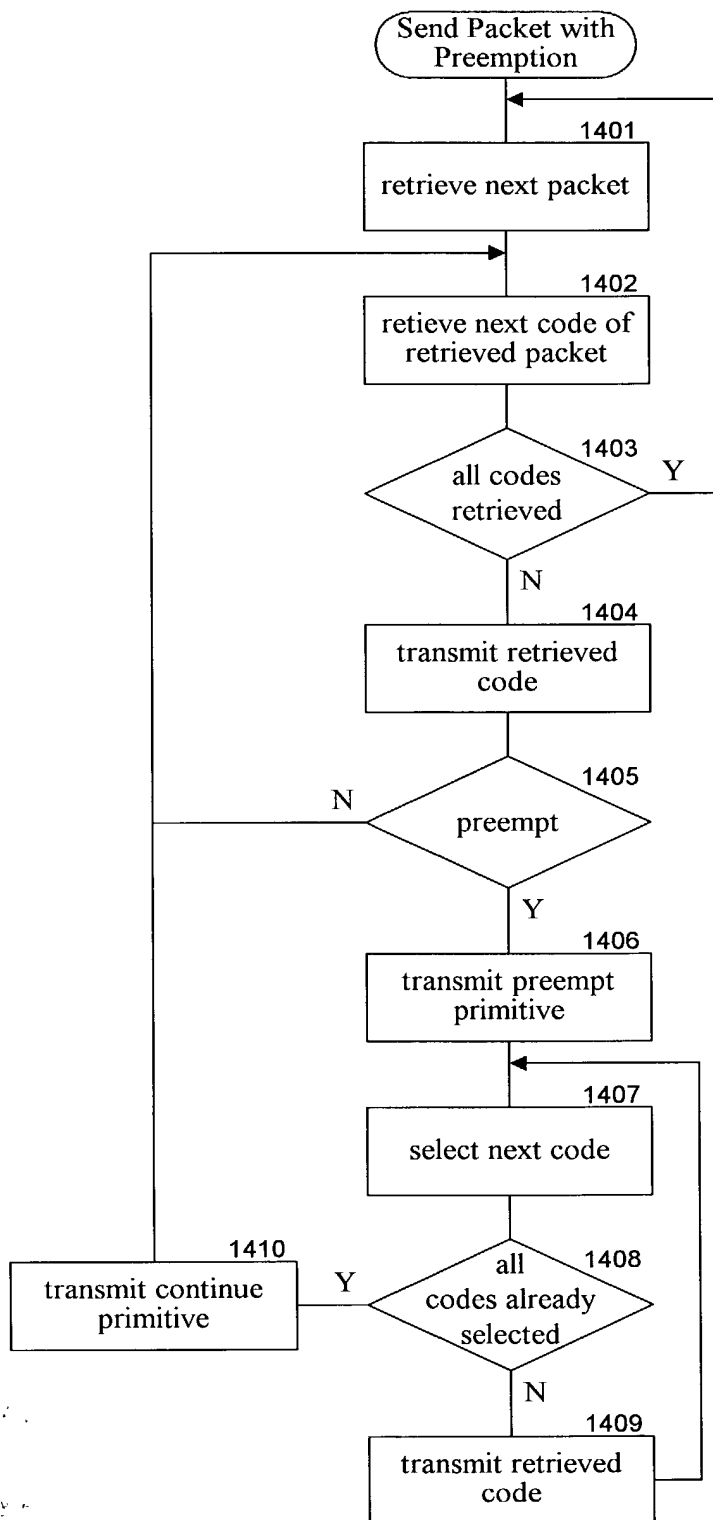


Fig. 12

**Fig. 14**

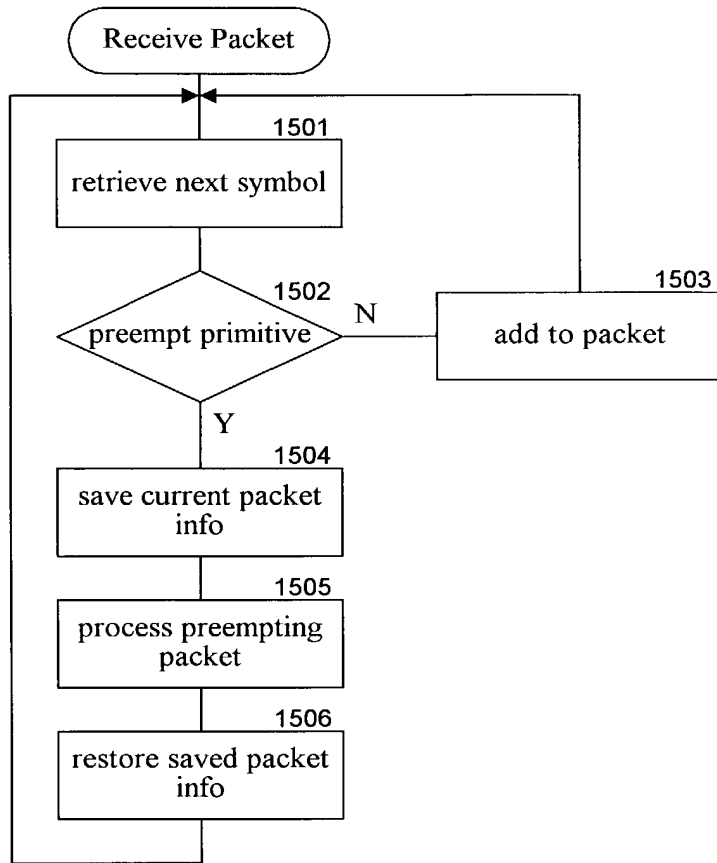


Fig. 15

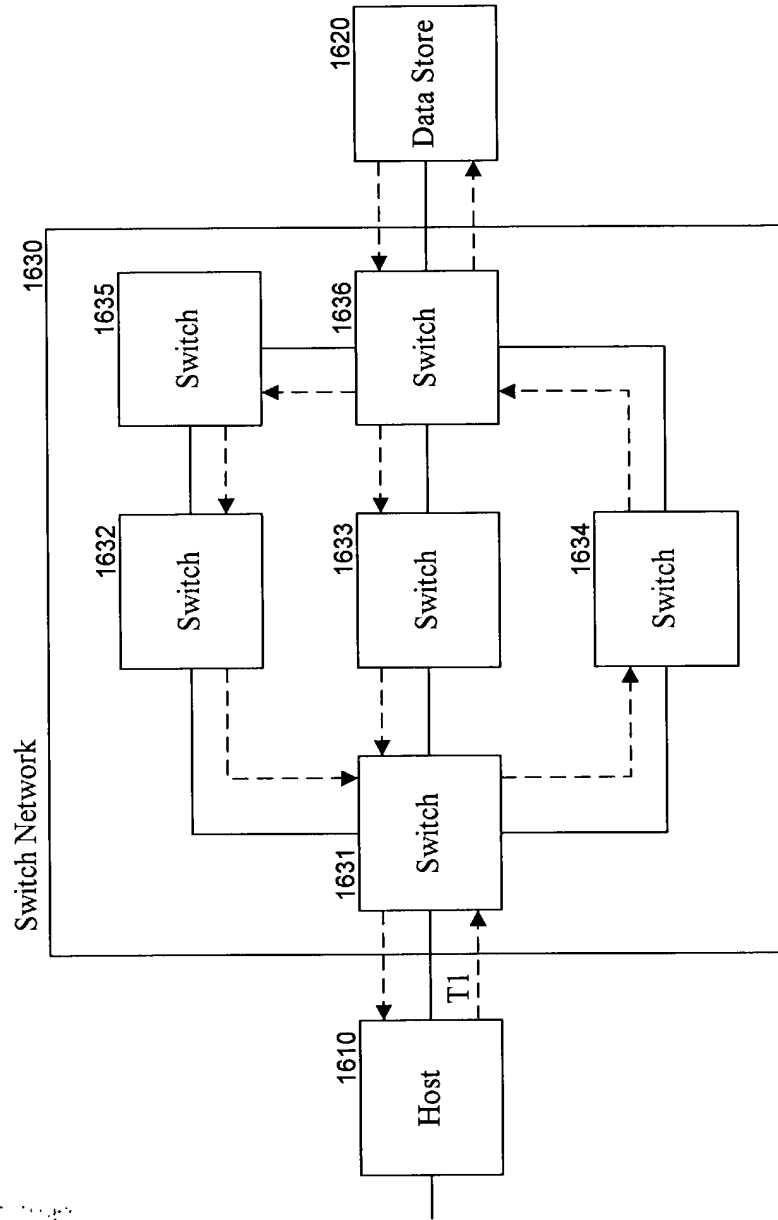


Fig. 16

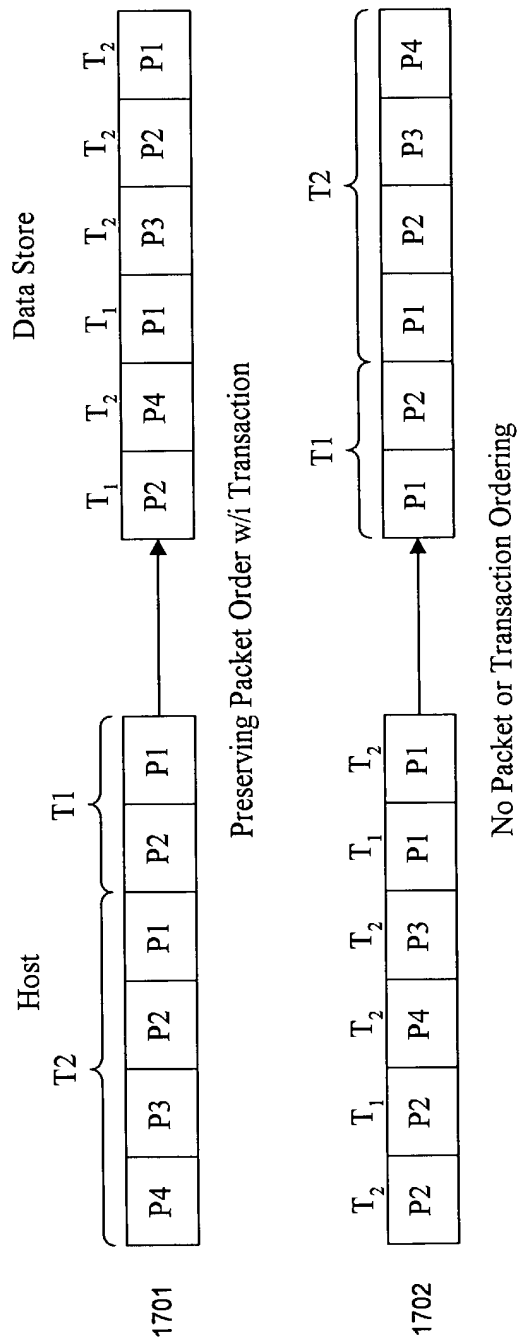
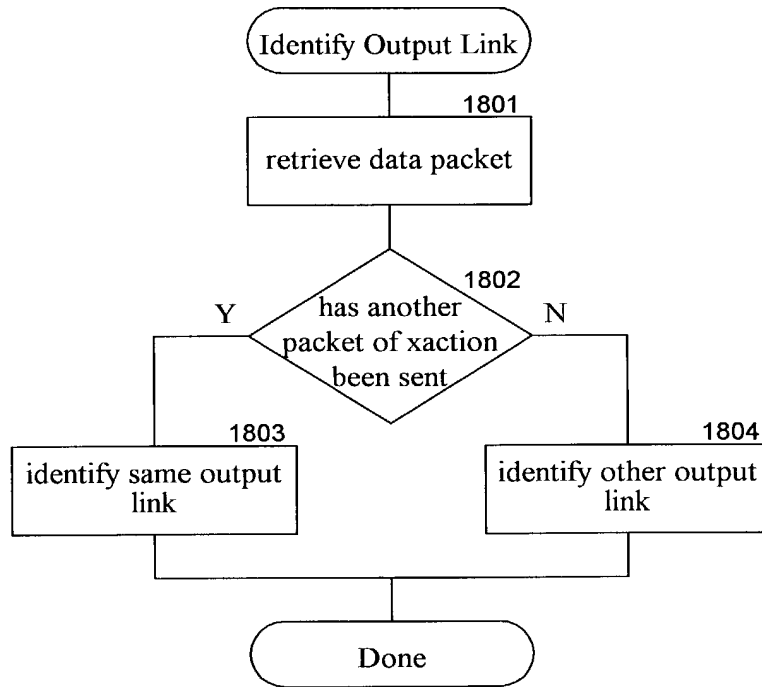


Fig. 17

**Fig. 18**

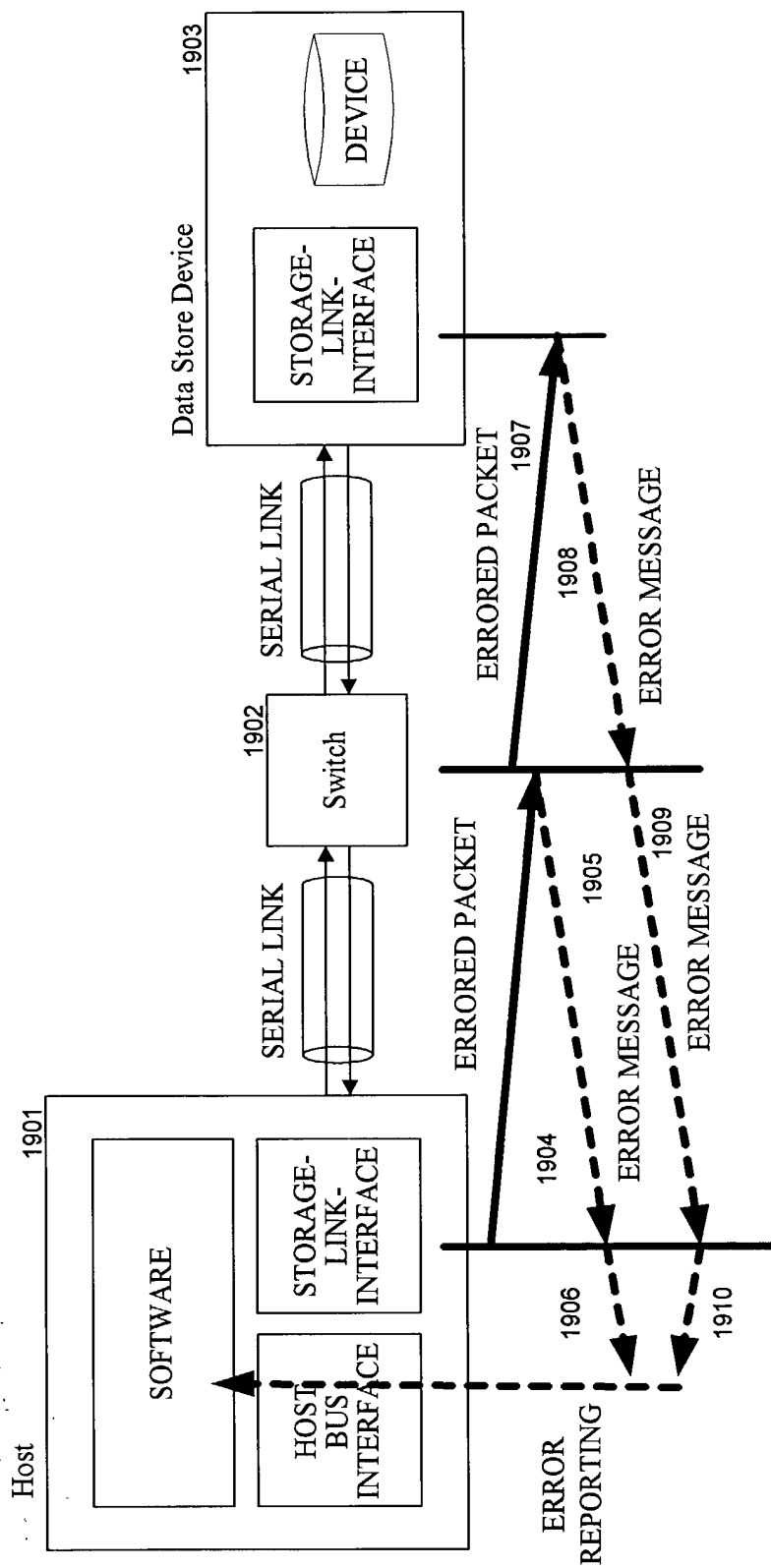
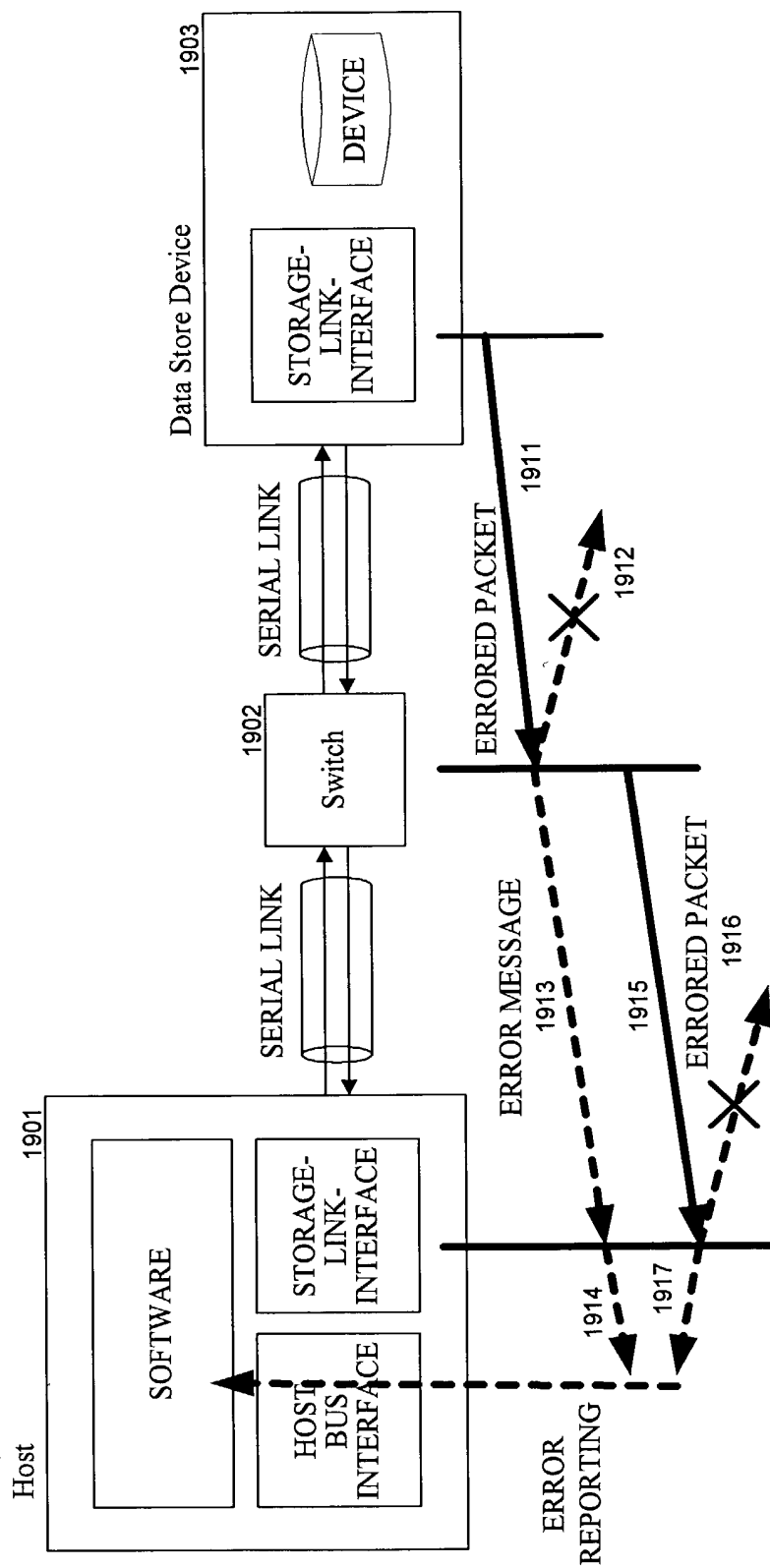


Fig. 19A



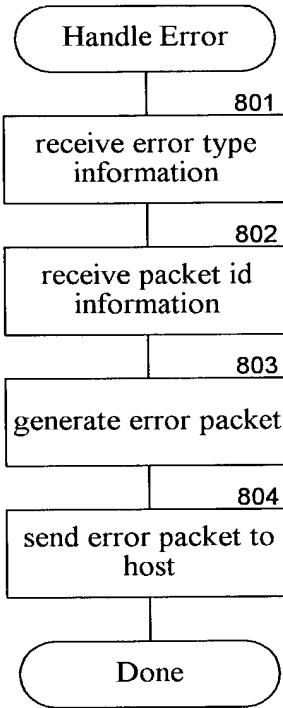


Fig. 19C

Fig. 20

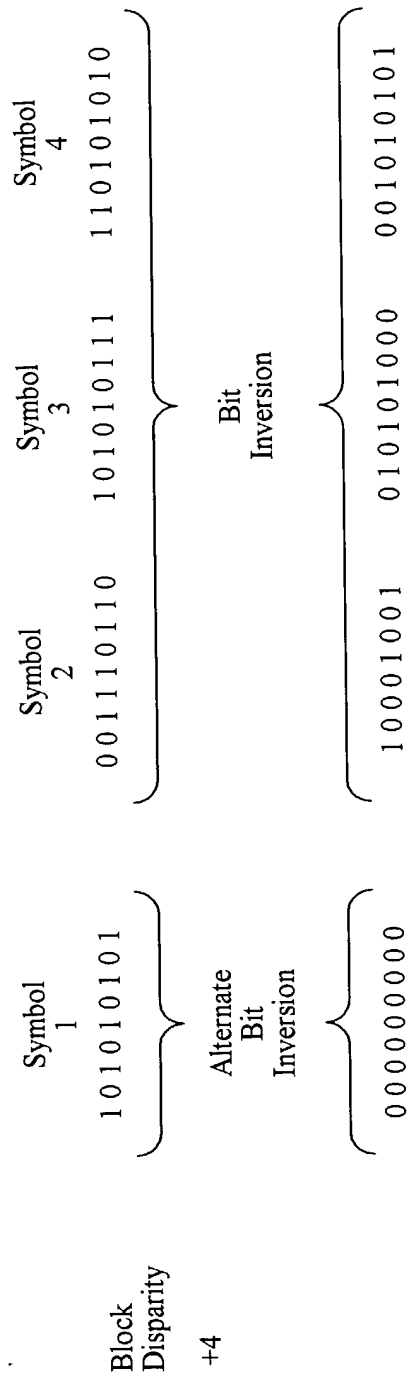


Fig. 21A

10001001 = 00000000

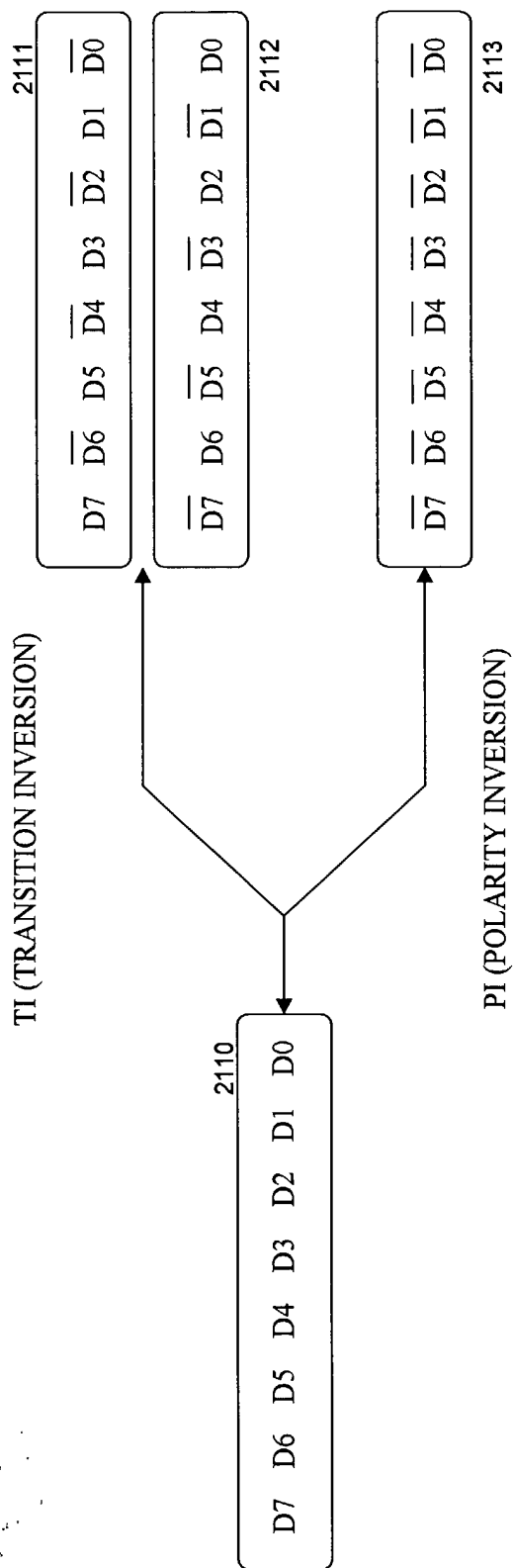


Fig. 21C

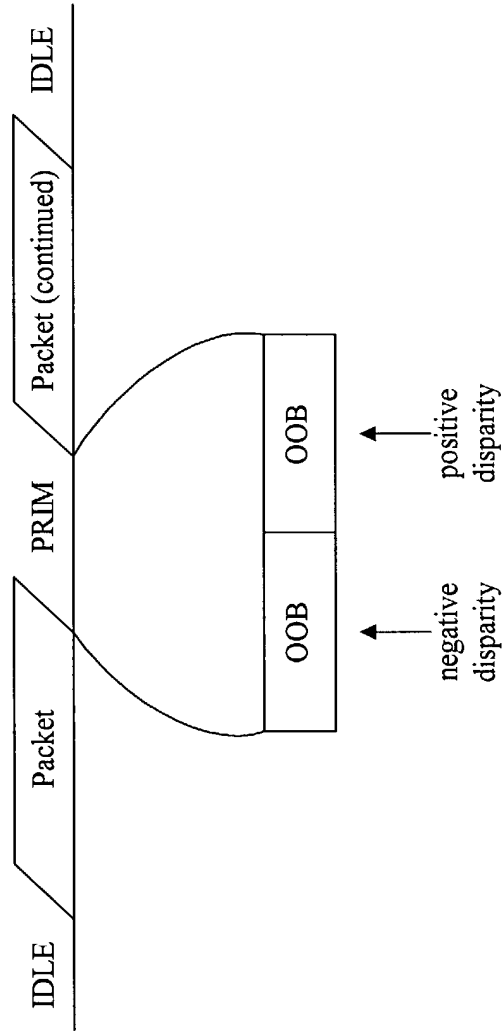
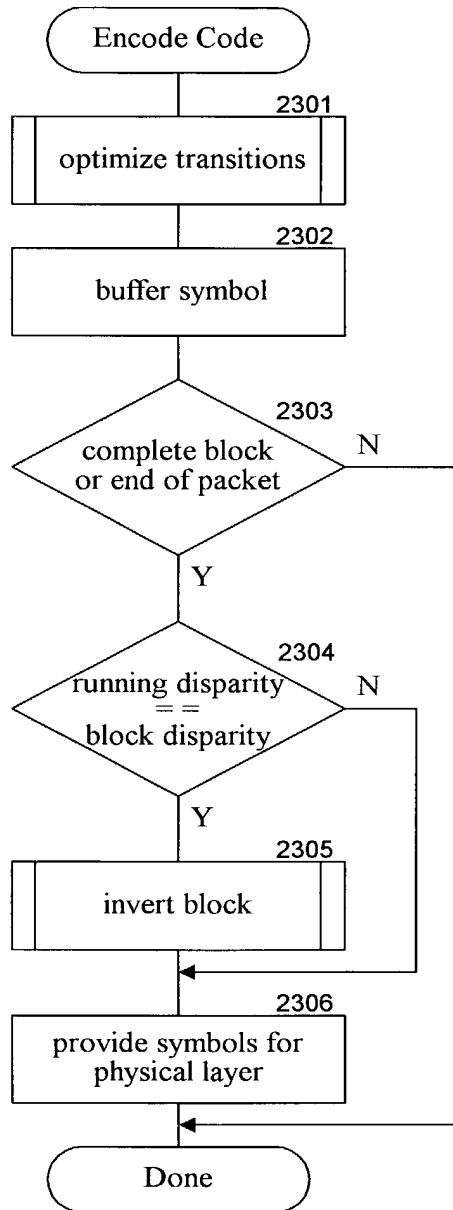


Fig. 22

**Fig. 23**

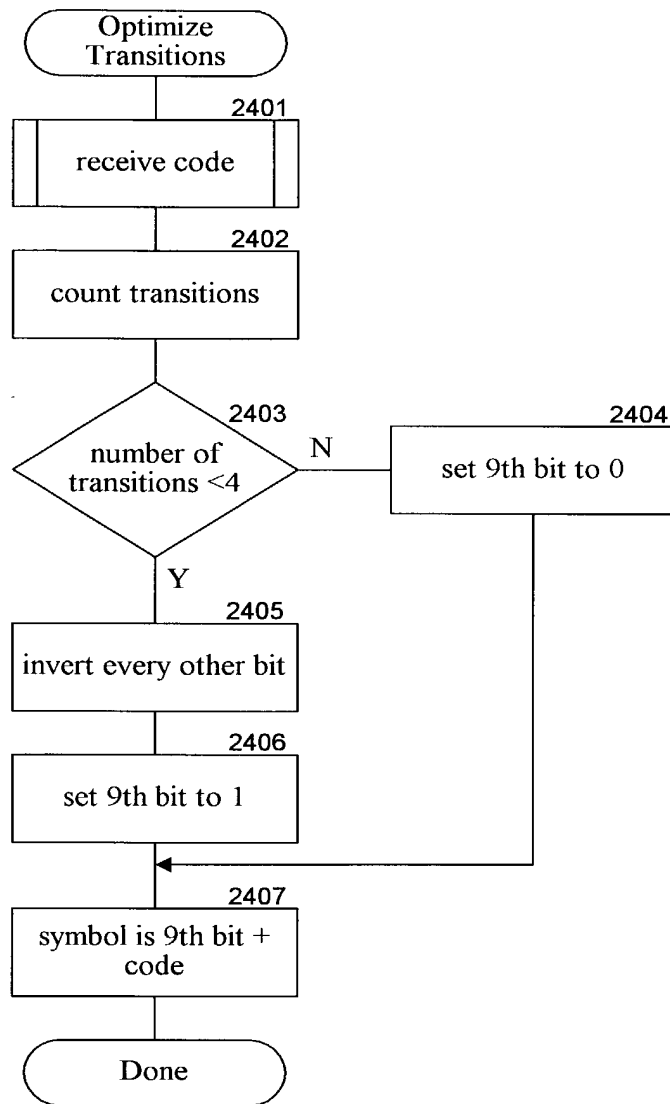


Fig. 24

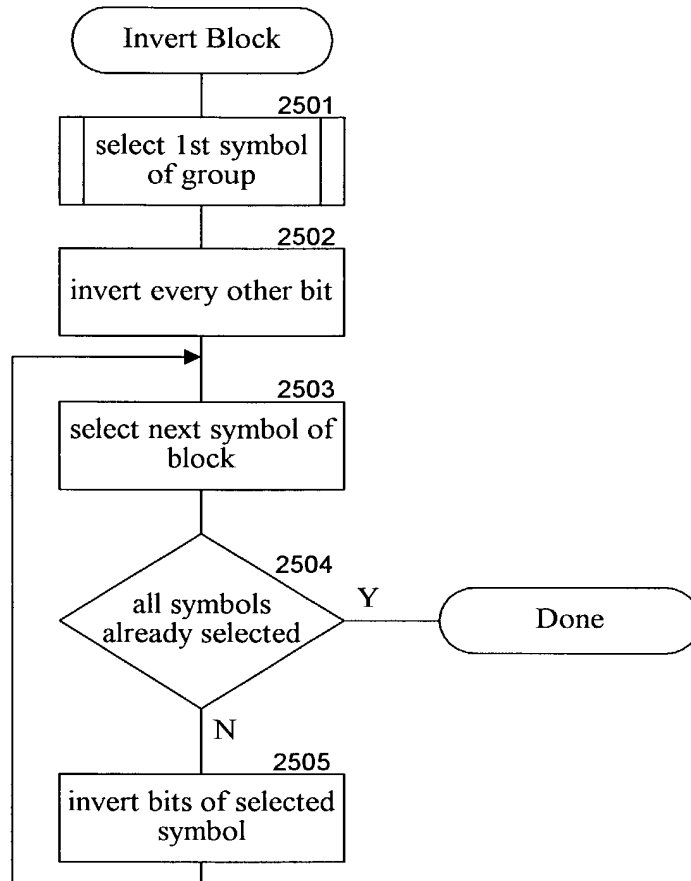


Fig. 25

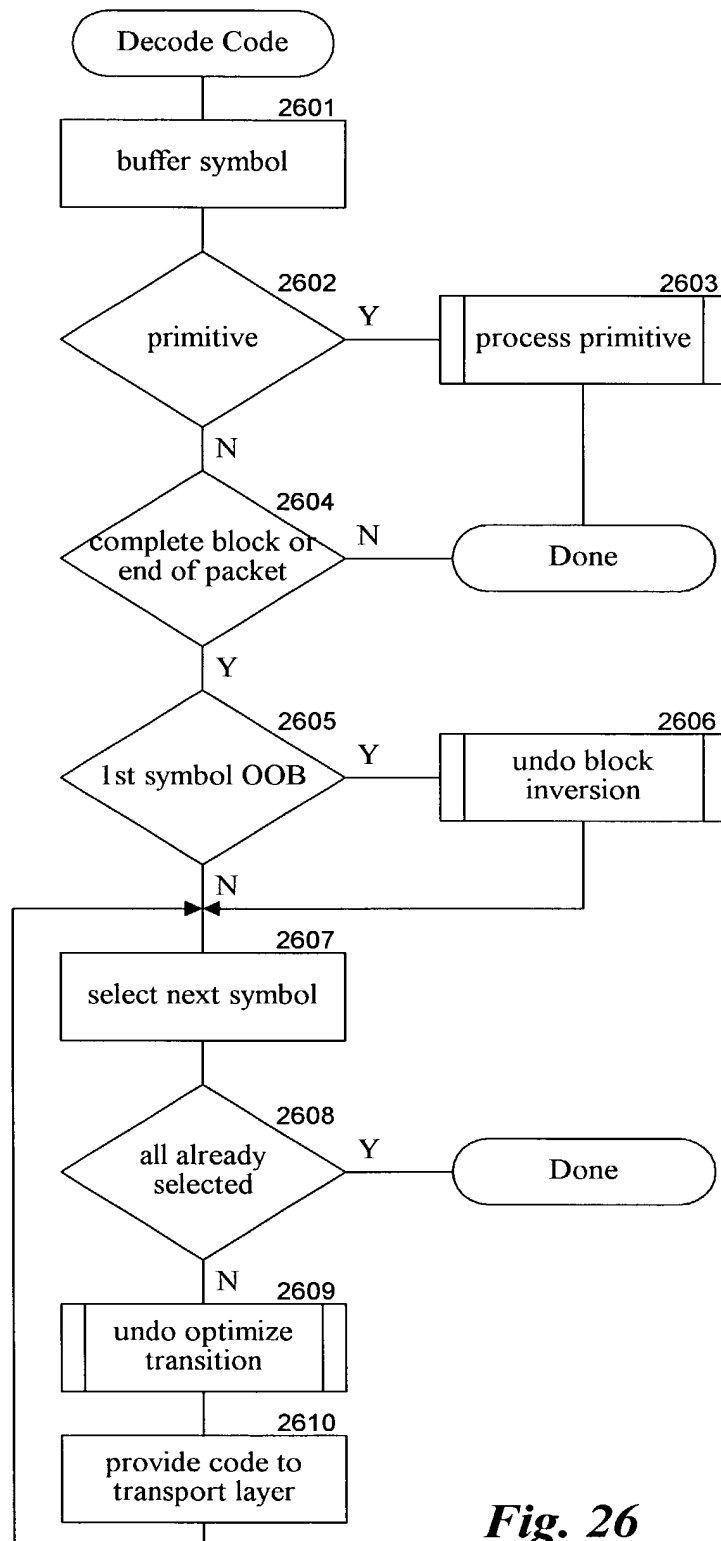


Fig. 26

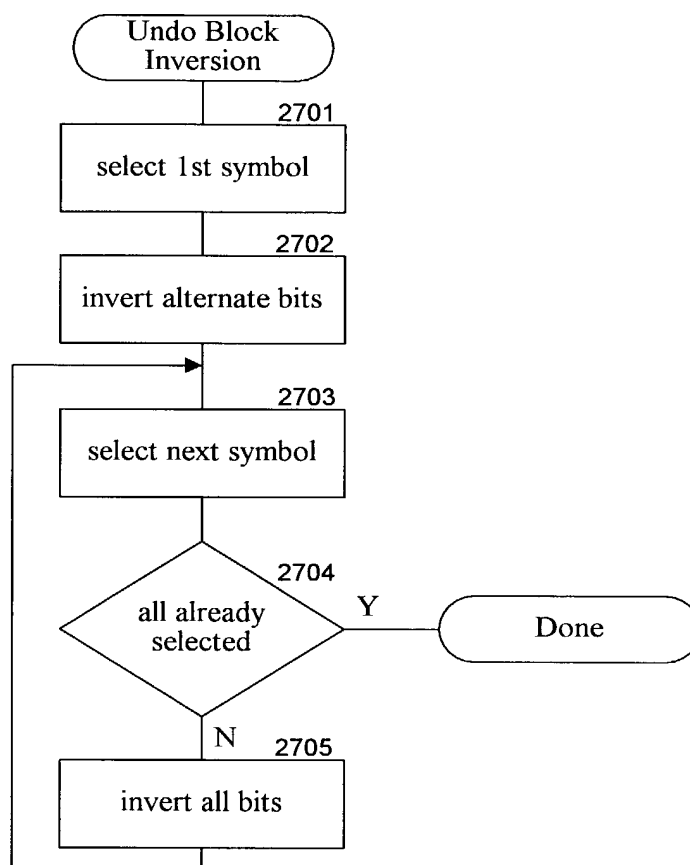


Fig. 27

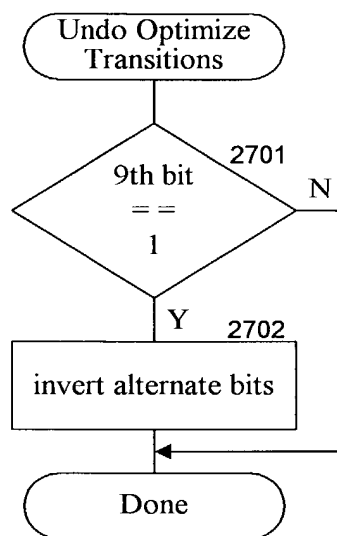


Fig. 28

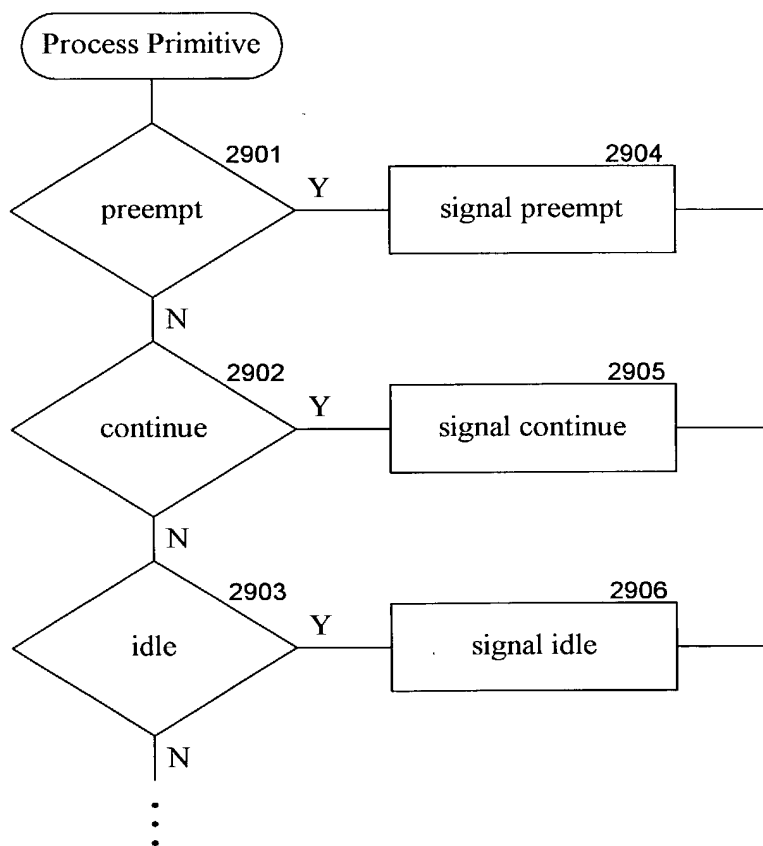


Fig. 29

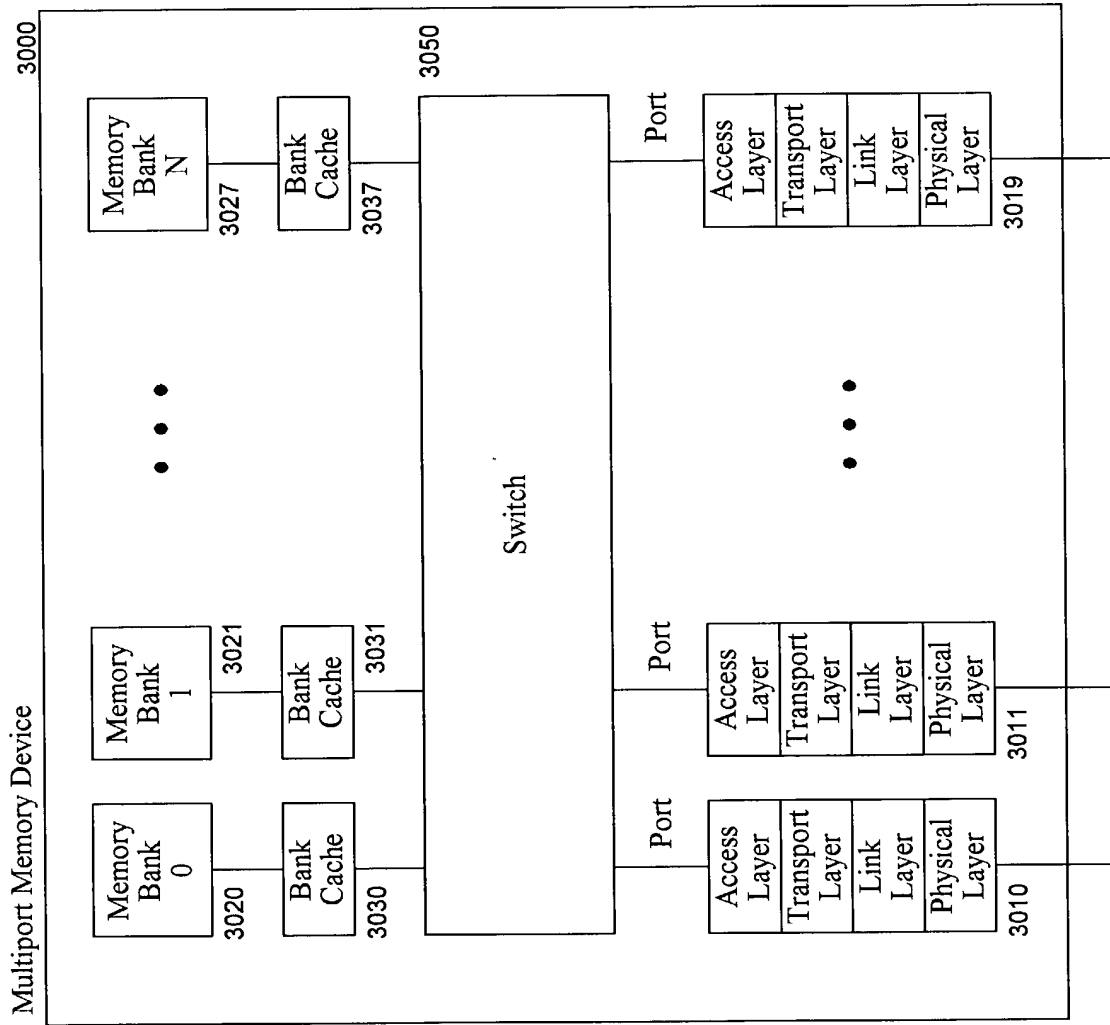


Fig. 30

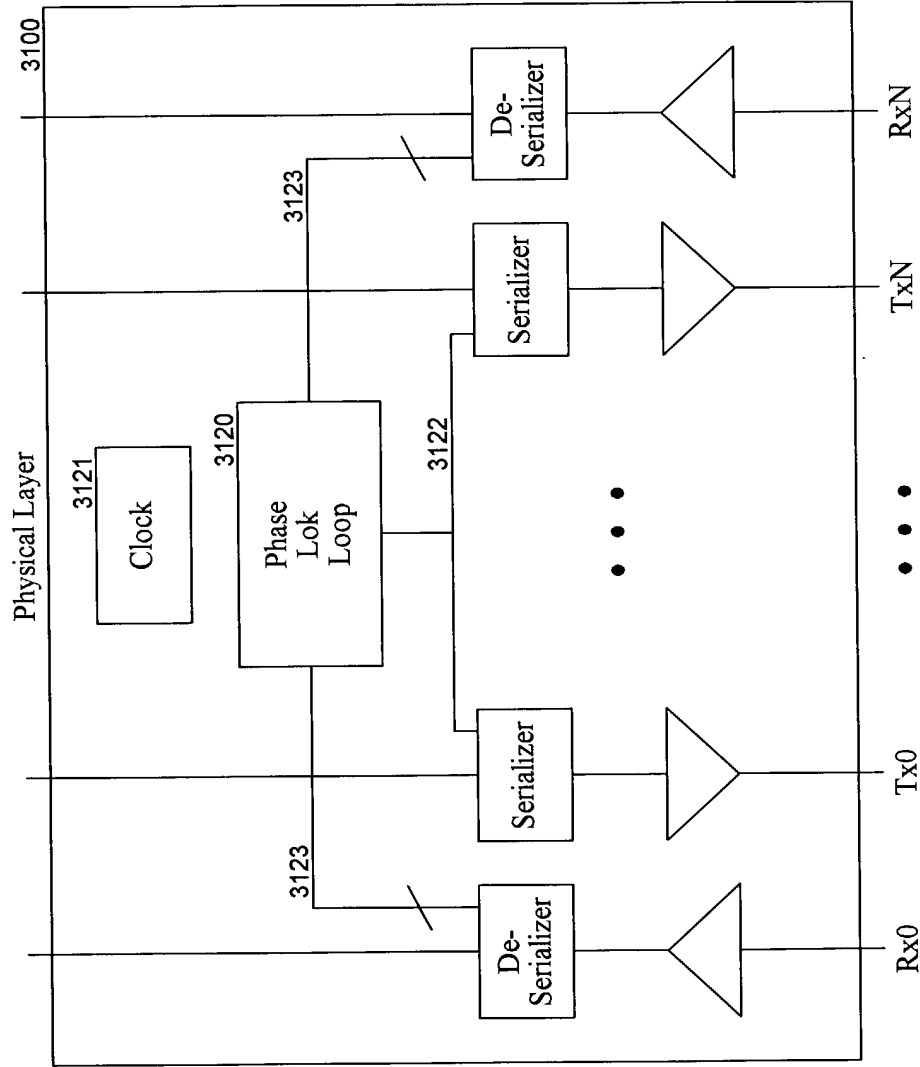


Fig. 31

| Input Queue 3201 | | | | Output Queue 3202 | | |
|------------------|-----|---------|---------|-------------------|------|---------|
| Port | R/W | Address | Data | Valid | Port | Data |
| 3 | R | 1000 | | 1 | 3 | 11...0 |
| 4 | W | 4000 | 10...1 | 0 | | |
| 3 | W | 1000 | 111...0 | 0 | | |
| 3 | R | 2000 | | 1 | 3 | 101...1 |
| | ⋮ | | | | ⋮ | |

Fig. 32

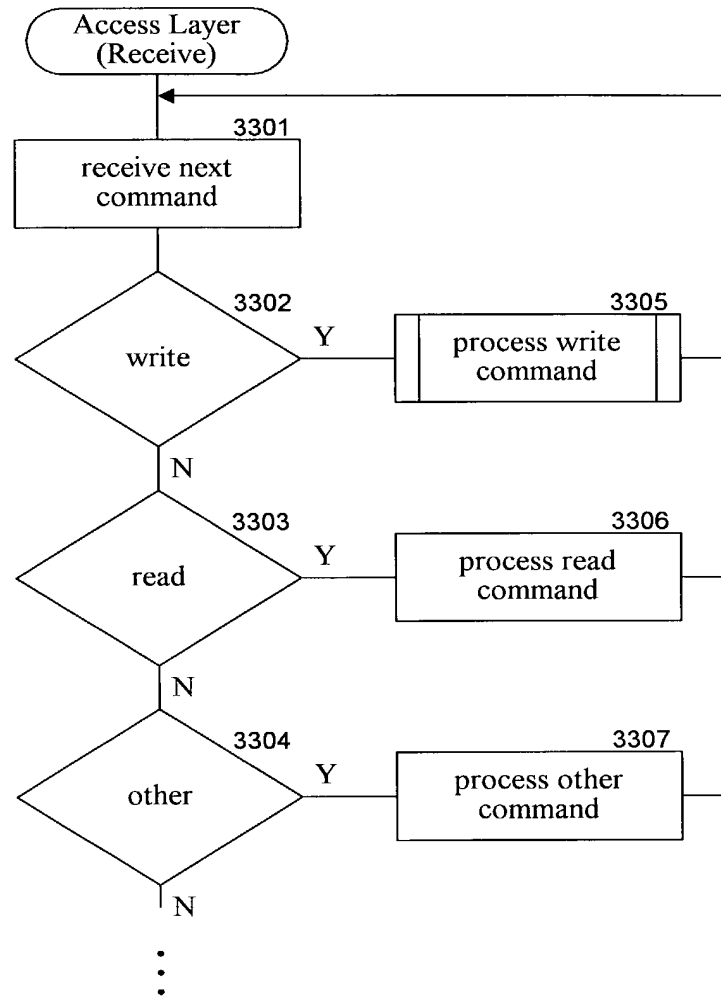
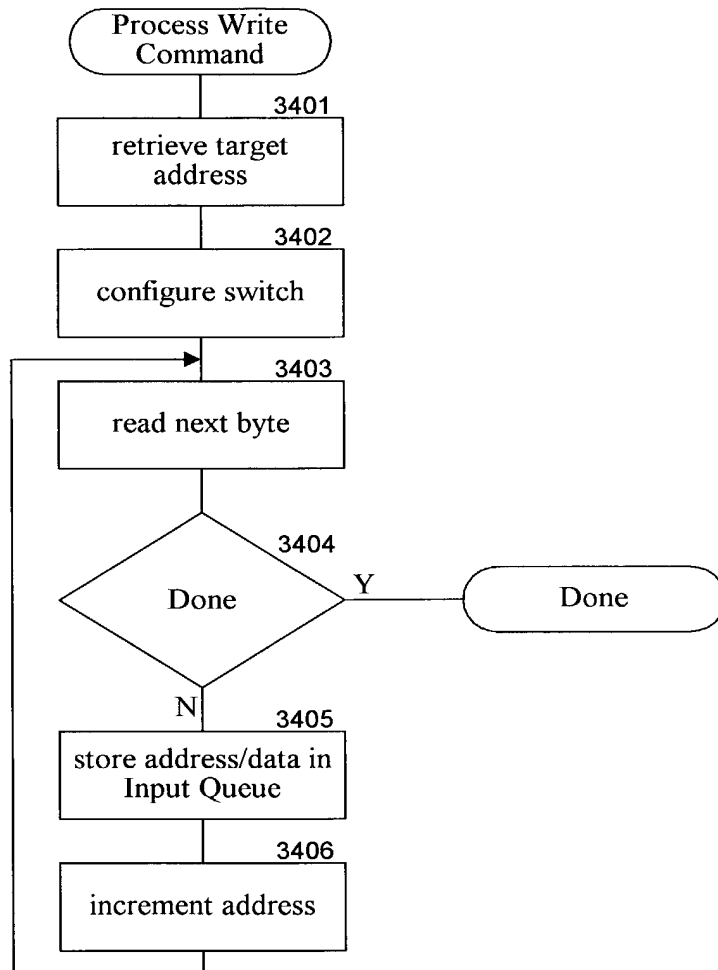
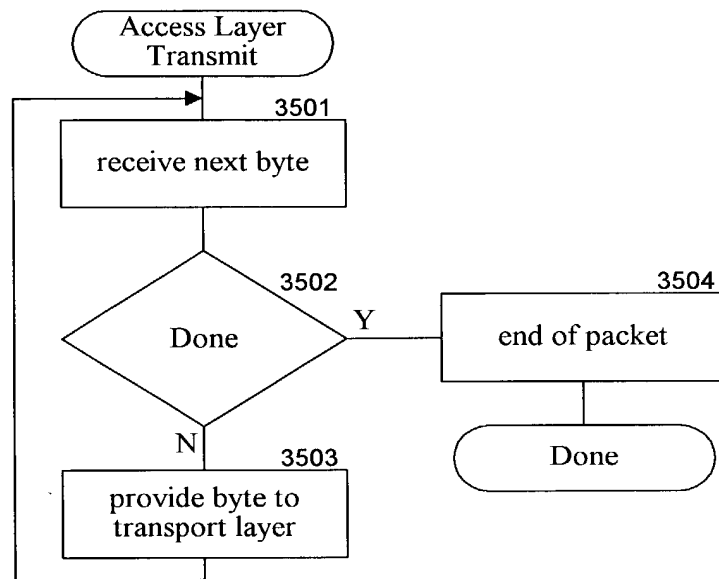


Fig. 33

**Fig. 34**

**Fig. 35**

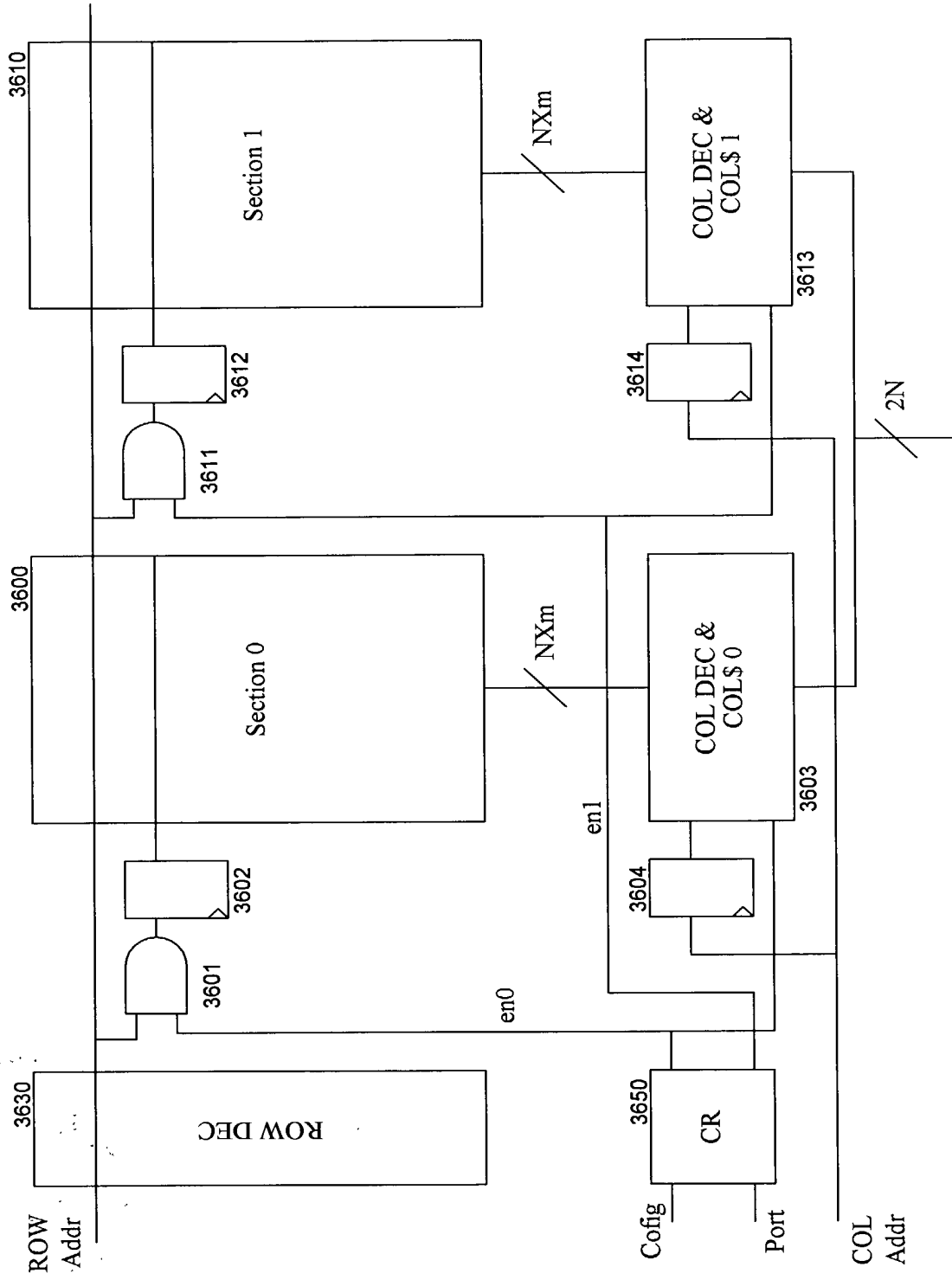


Fig. 36

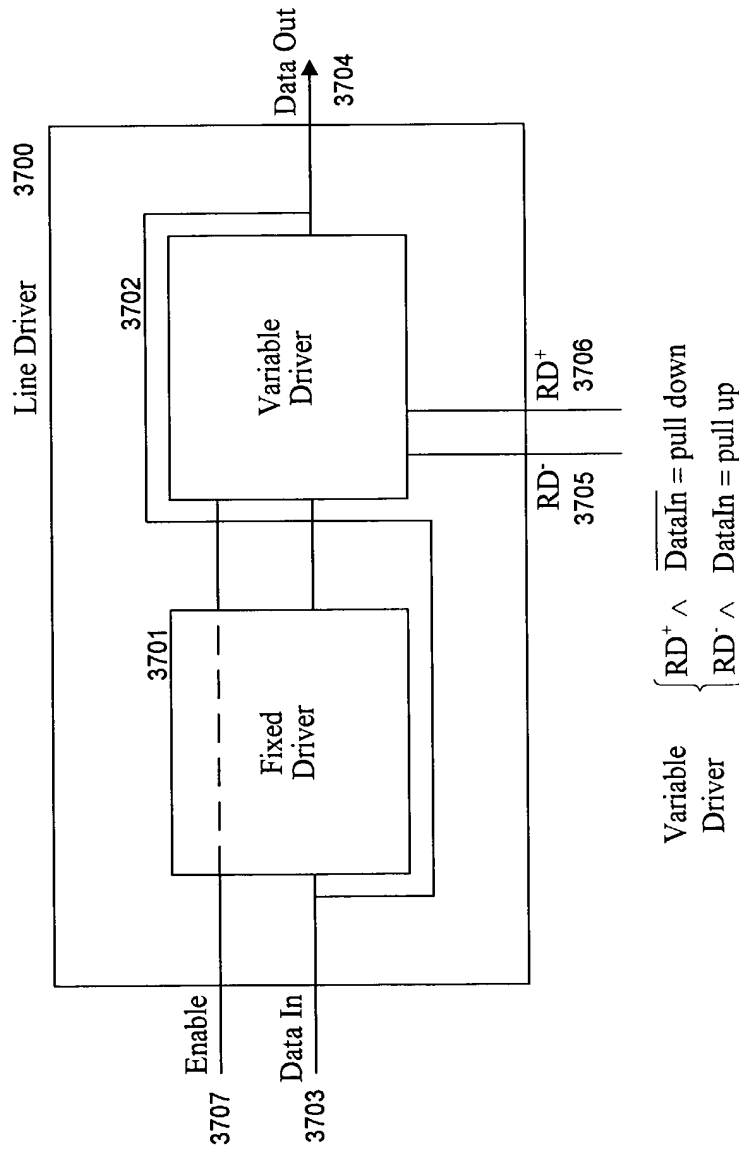


Fig. 37A

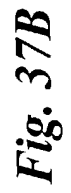


Fig. 37B

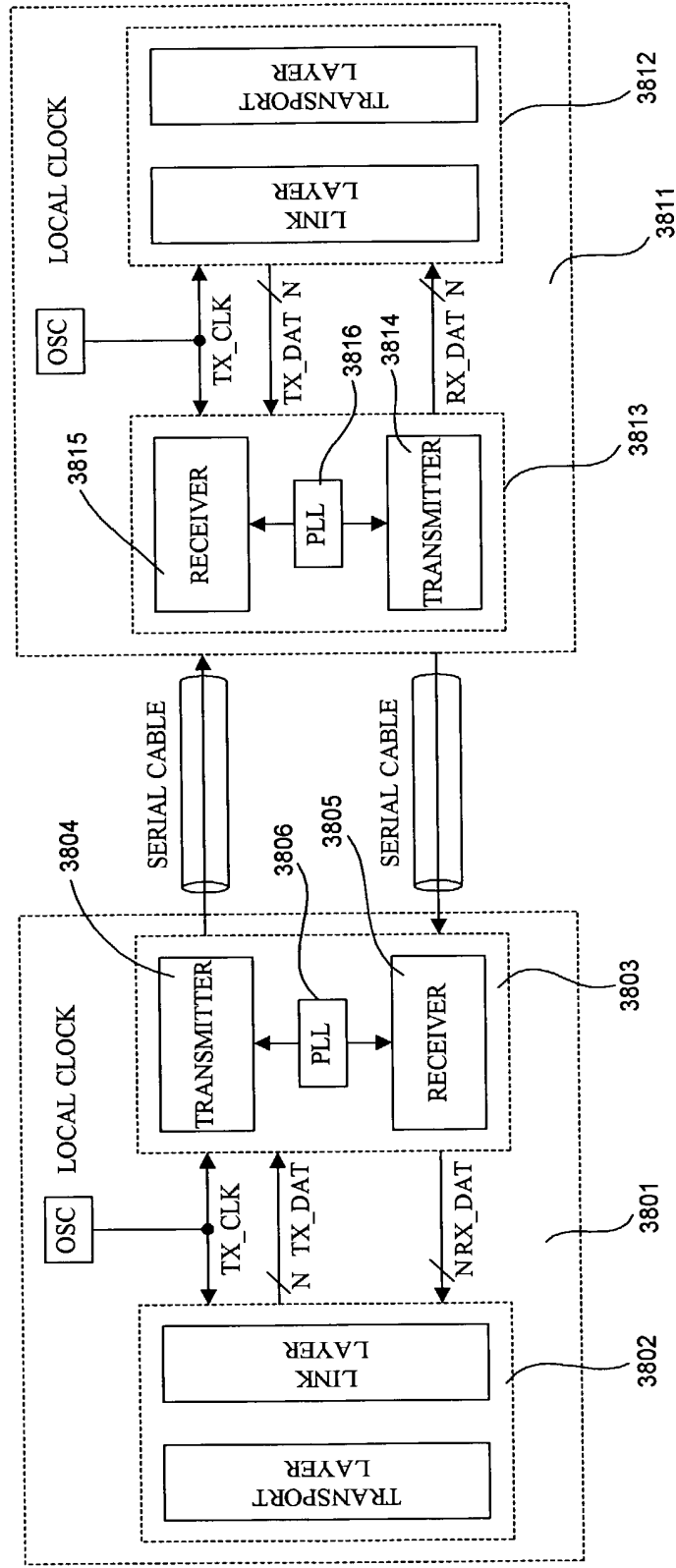


Fig. 38A

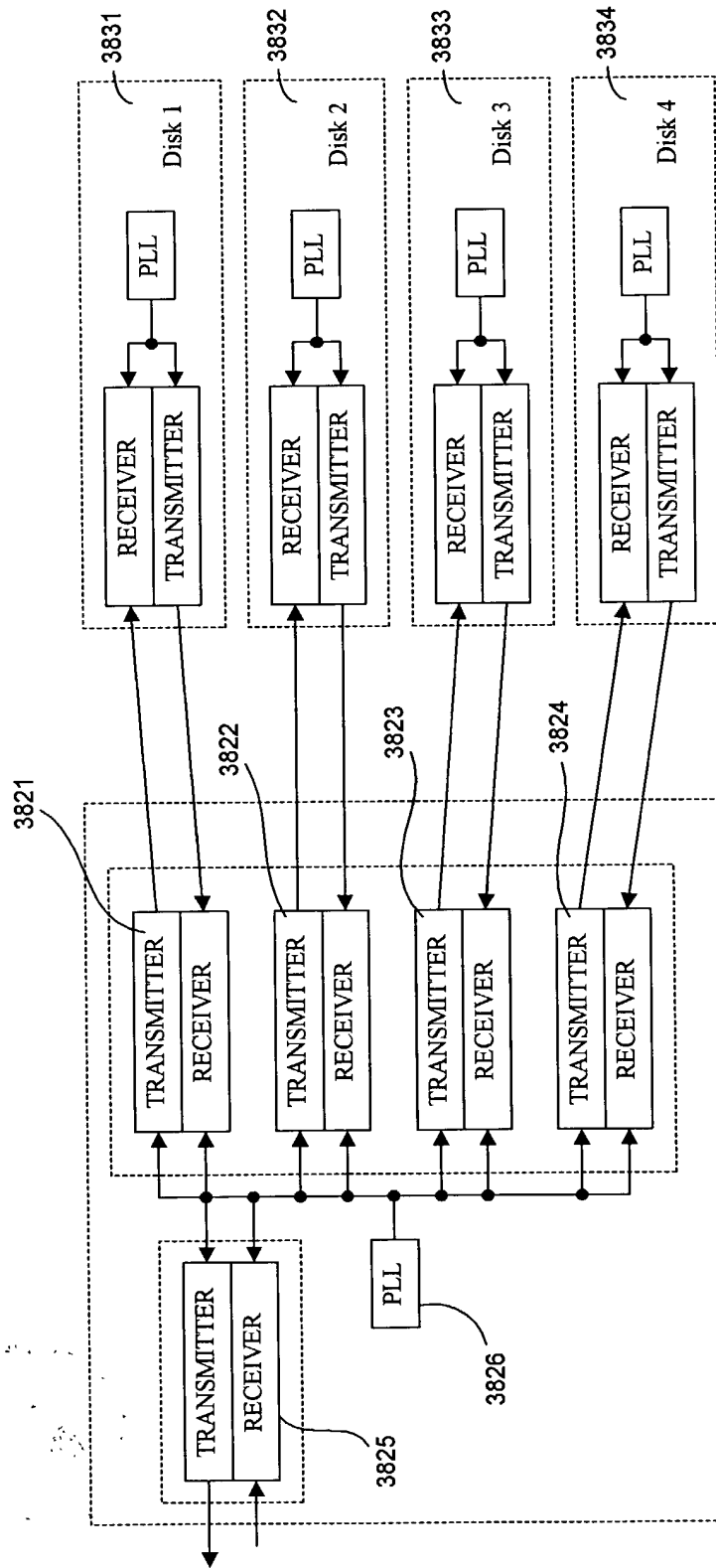
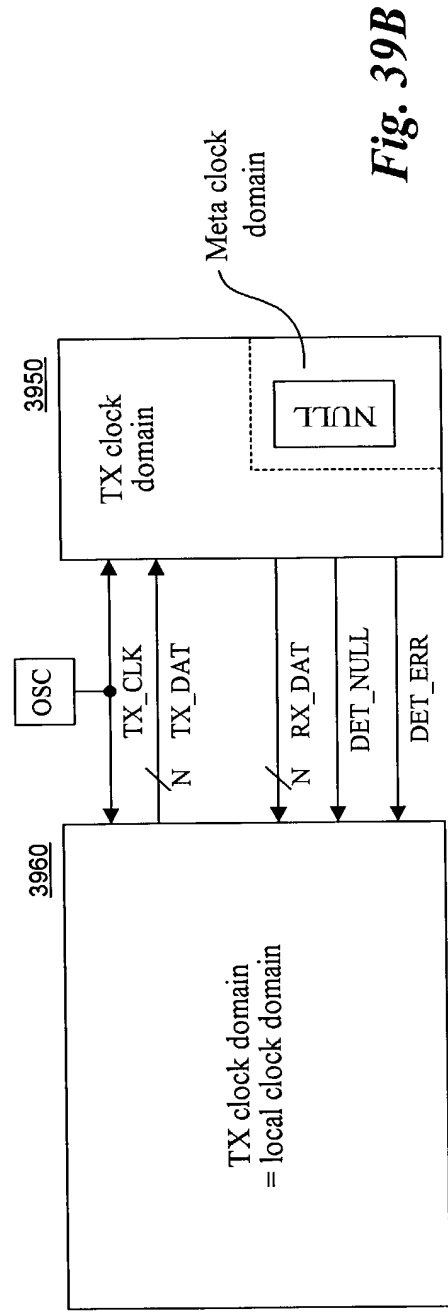
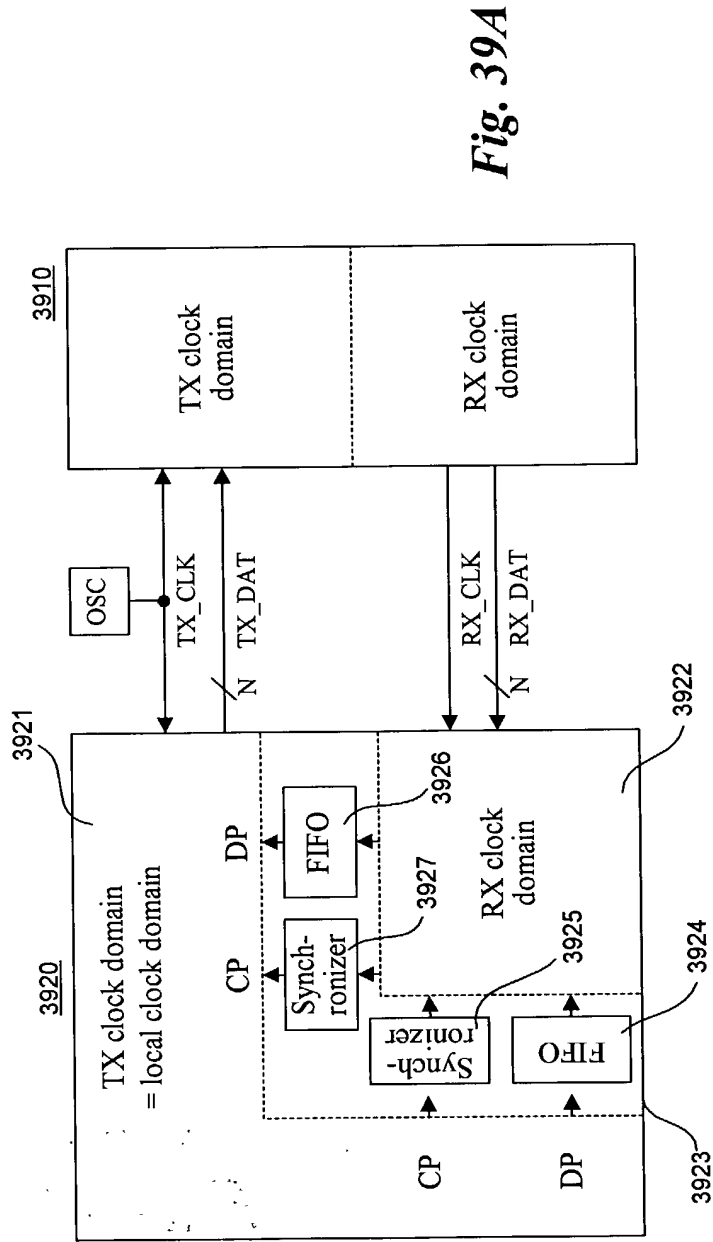
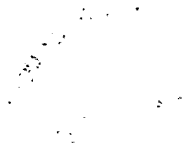


Fig. 38B





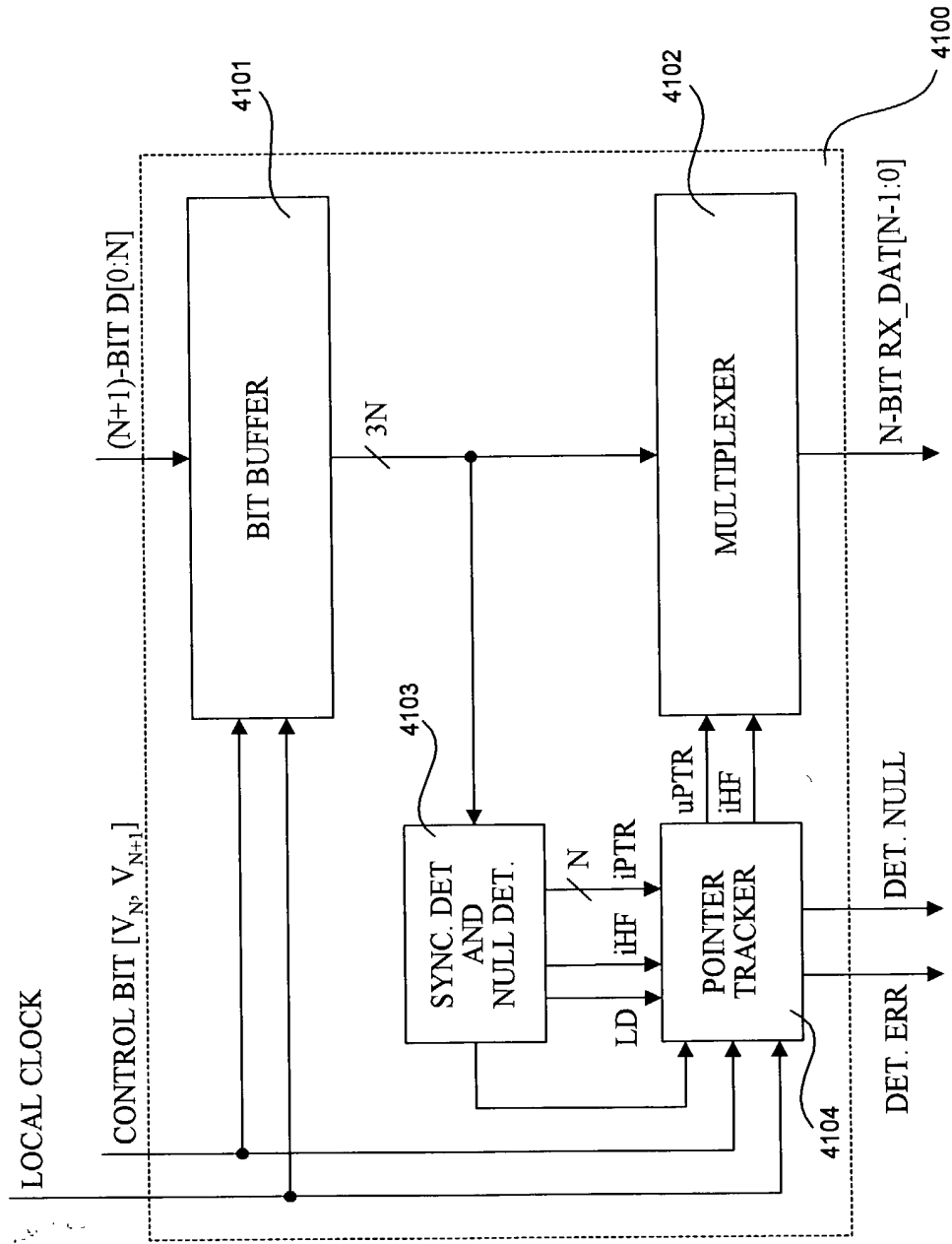


Fig. 41

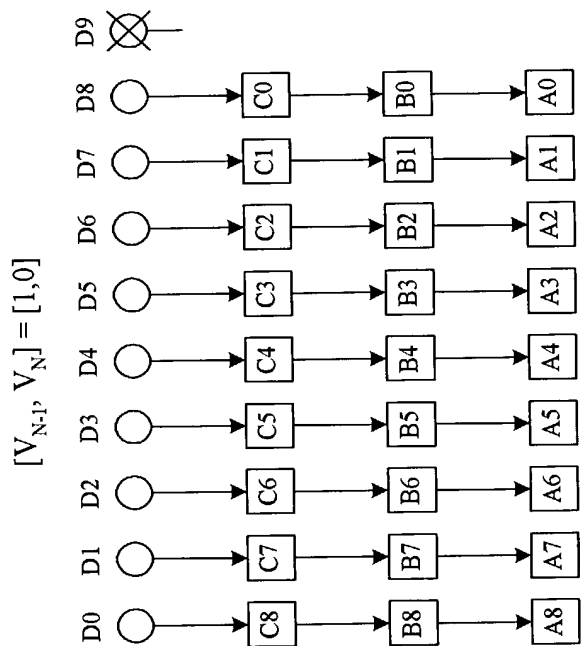


Fig. 42A

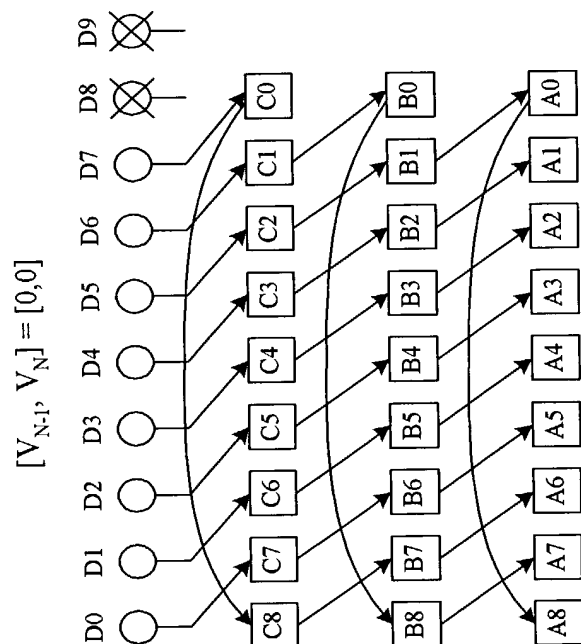


Fig. 42B

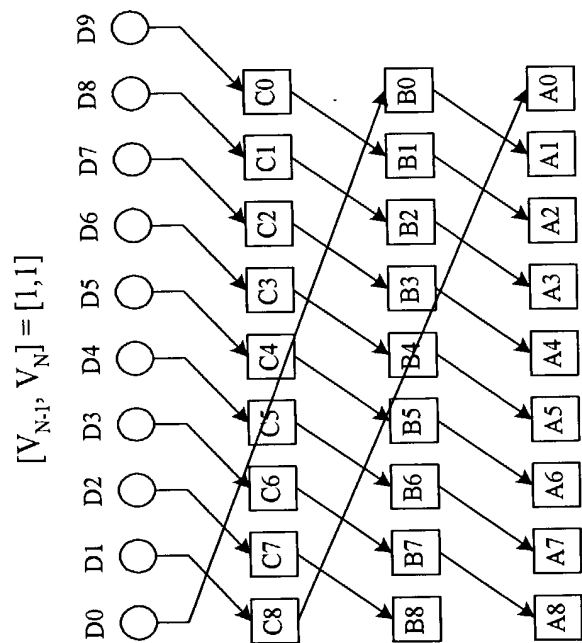


Fig. 42C

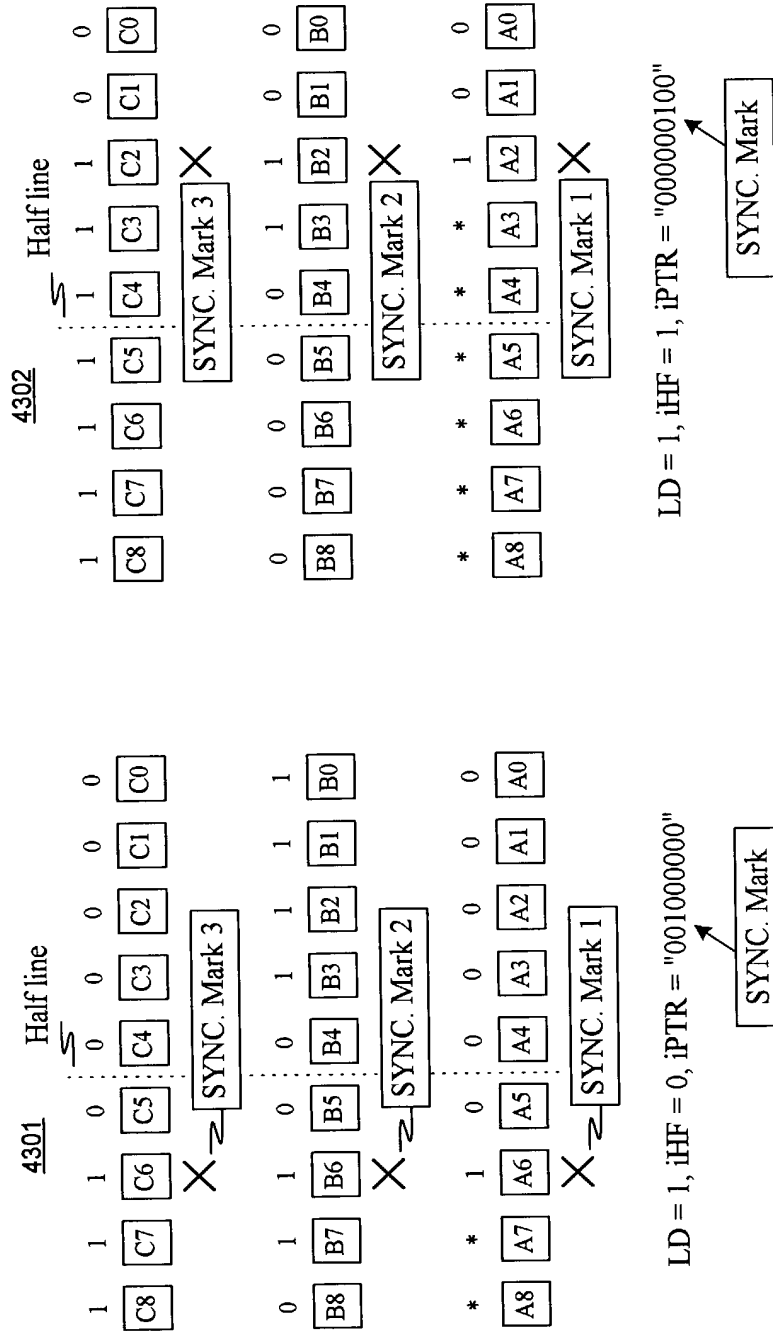
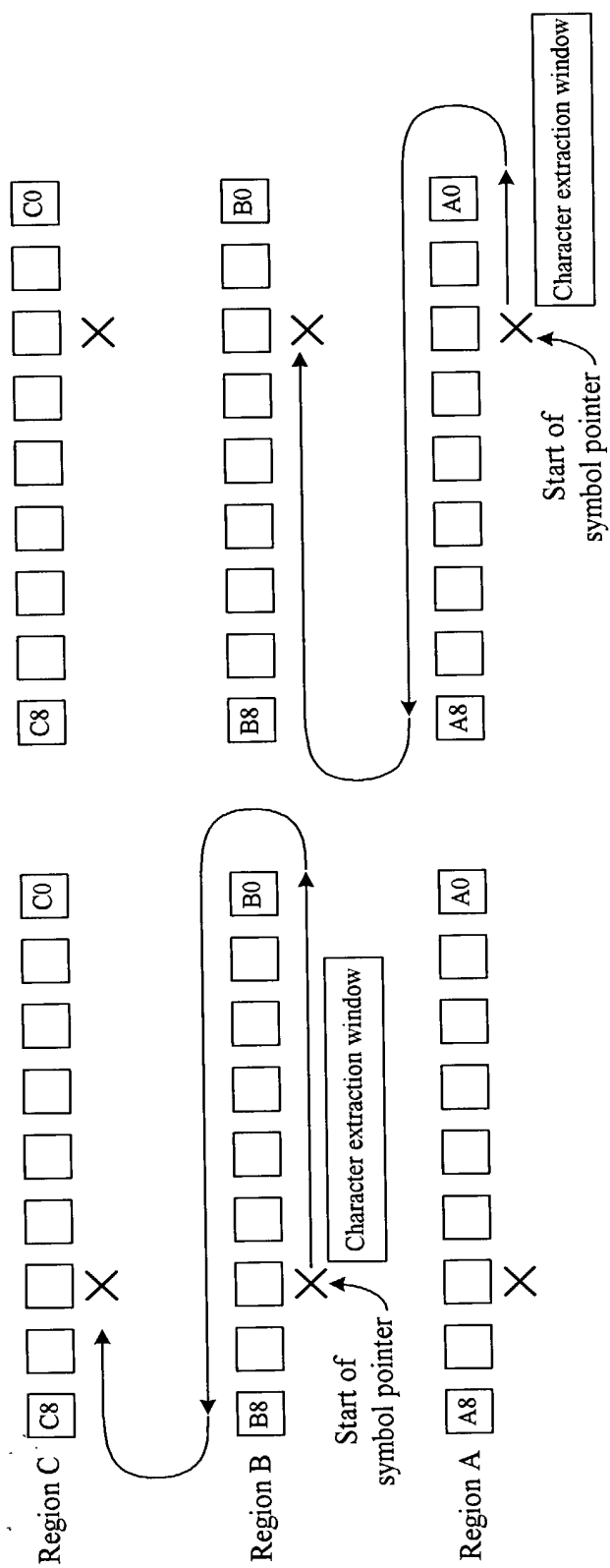


Fig. 43



LD = 1, iHF = 1, iPTR = "000000100"

LD = 1, iHF = 0, iPTR = "001000000"

Fig. 44

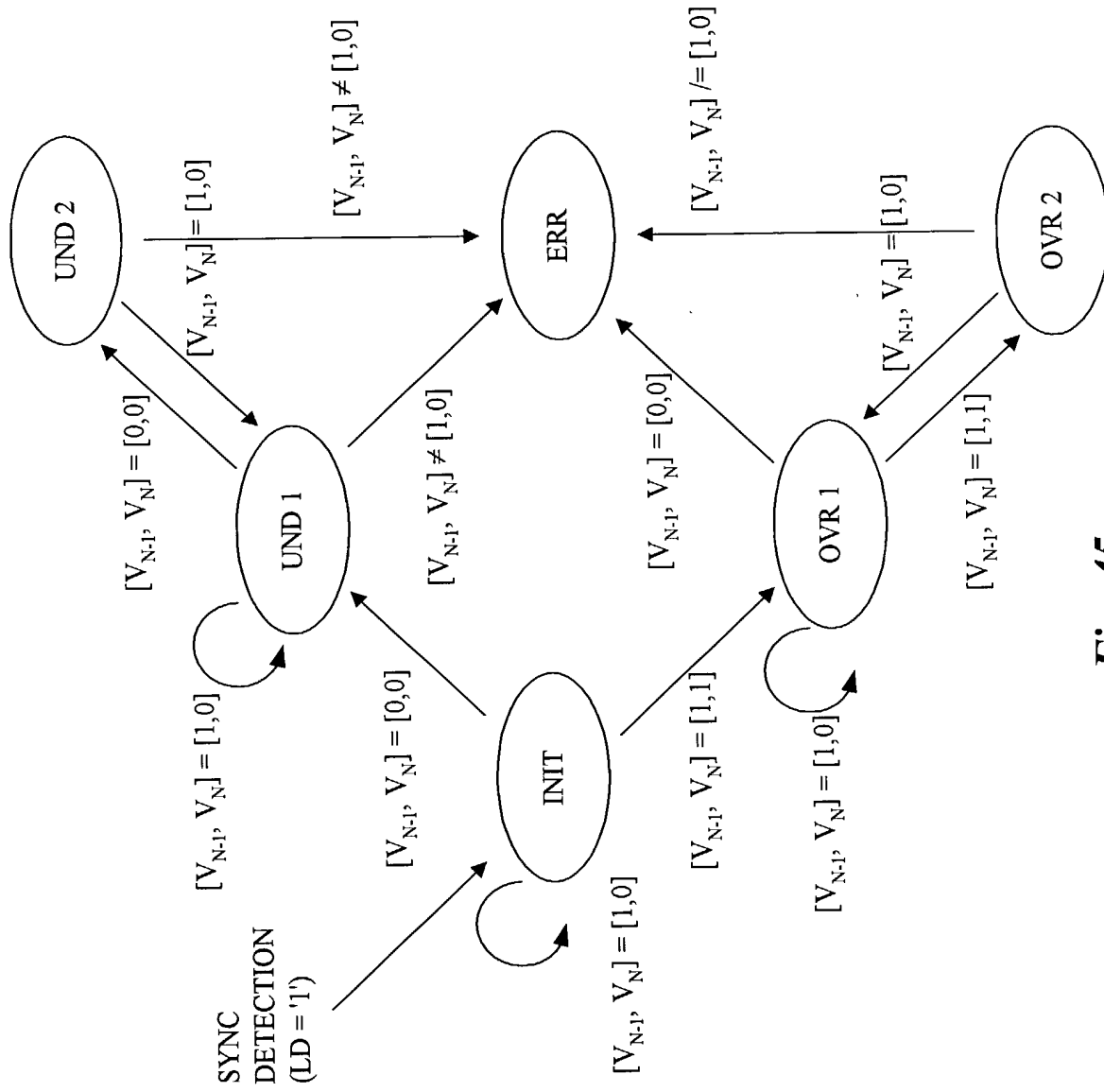


Fig. 45

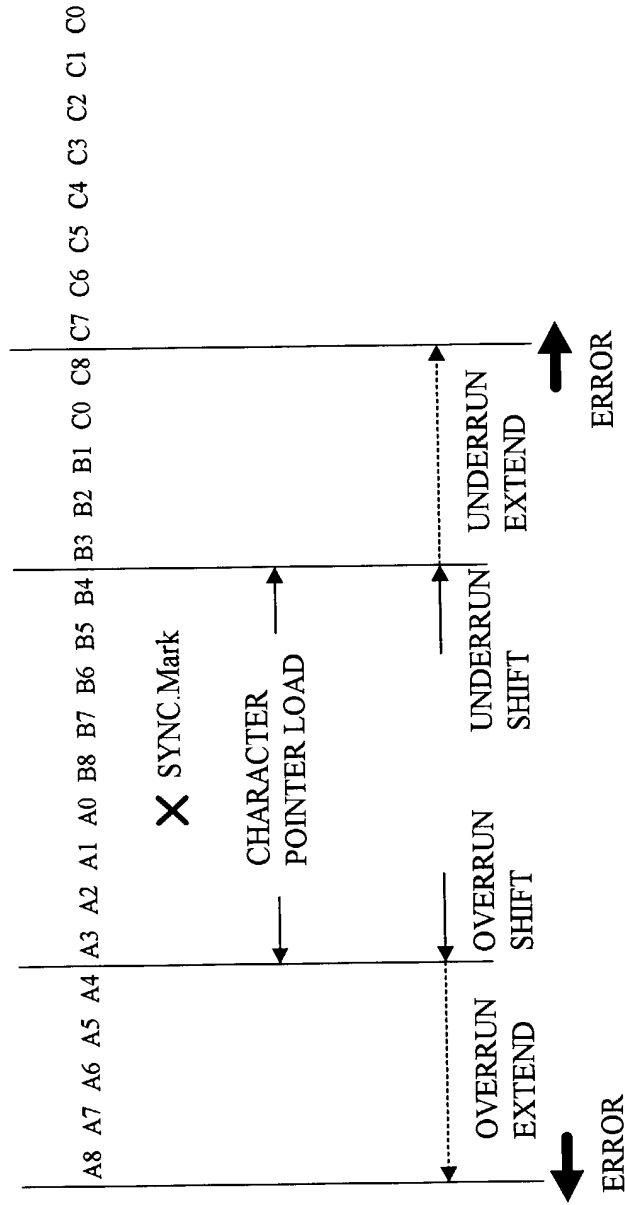


Fig. 46

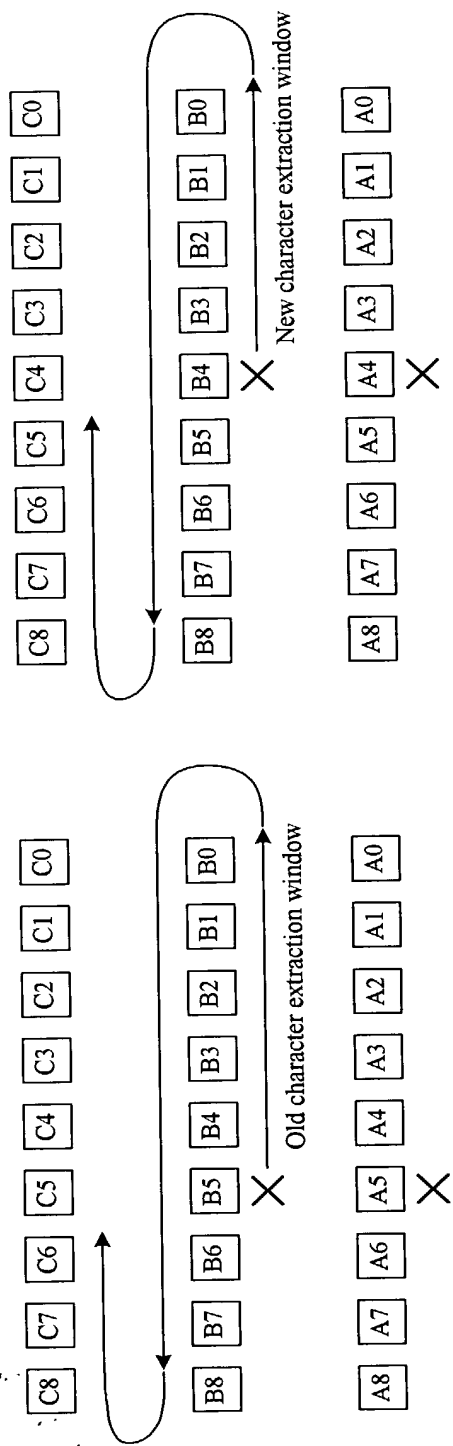


Fig. 47A

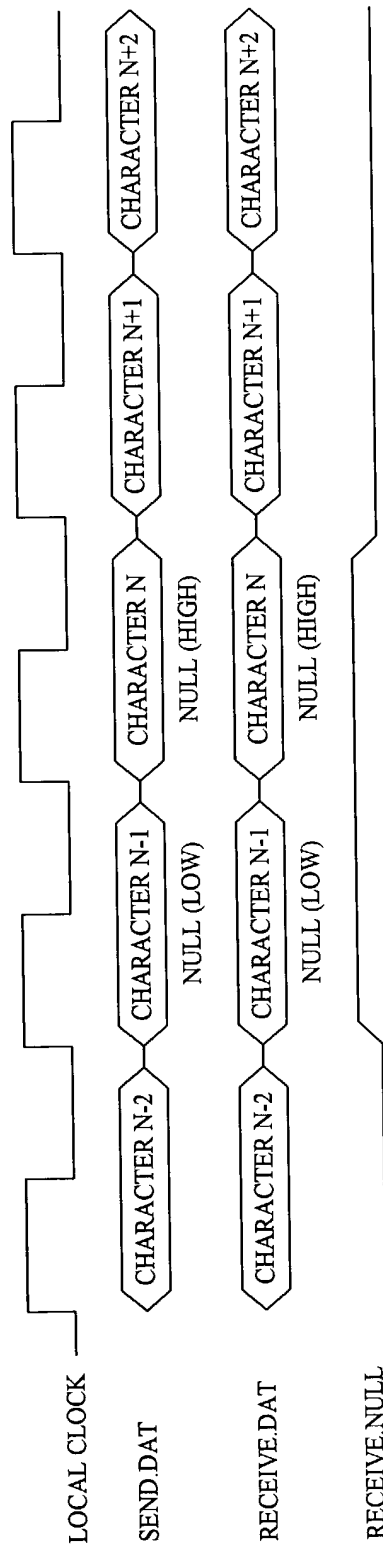


Fig. 47B

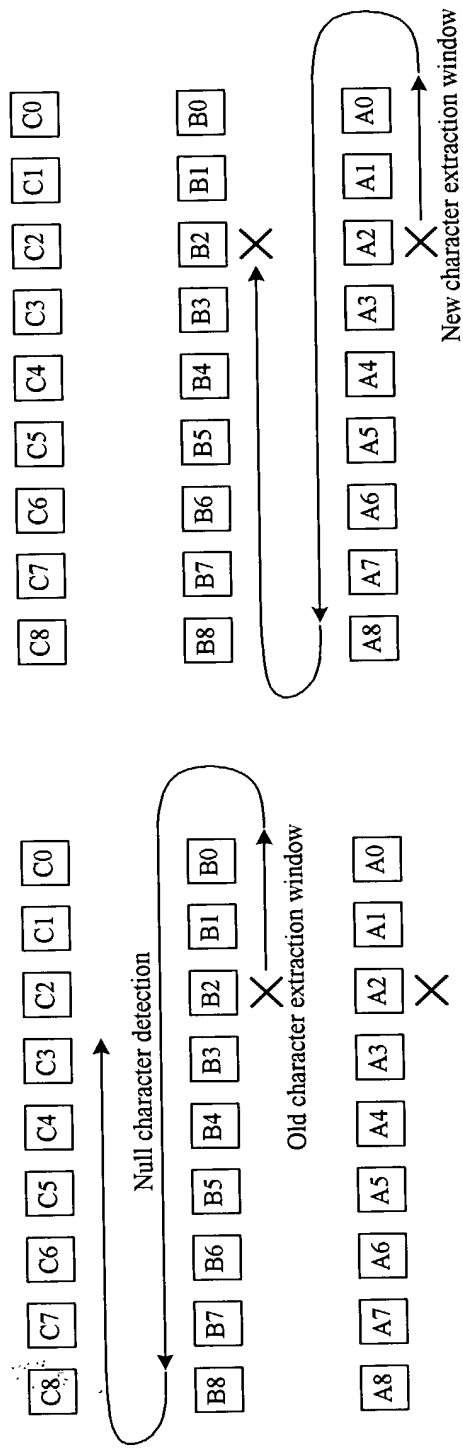


Fig. 48A

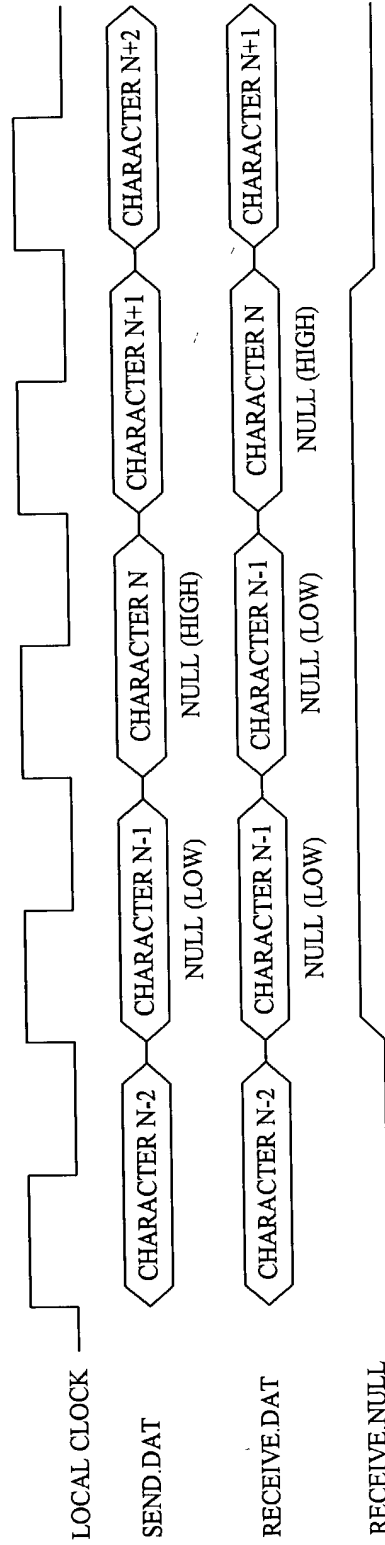


Fig. 48B

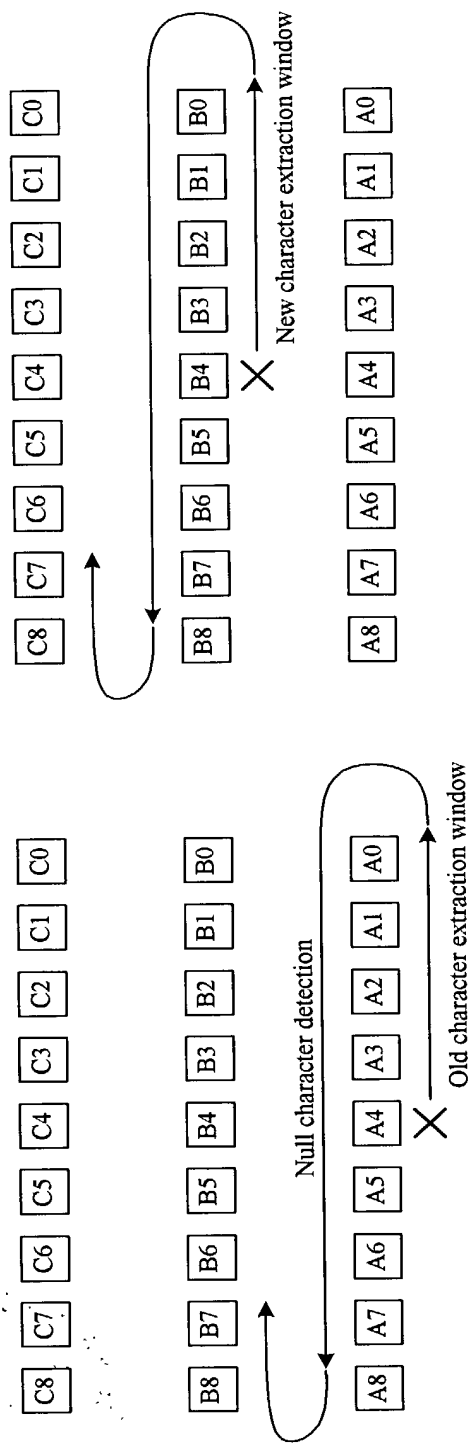


Fig. 49A

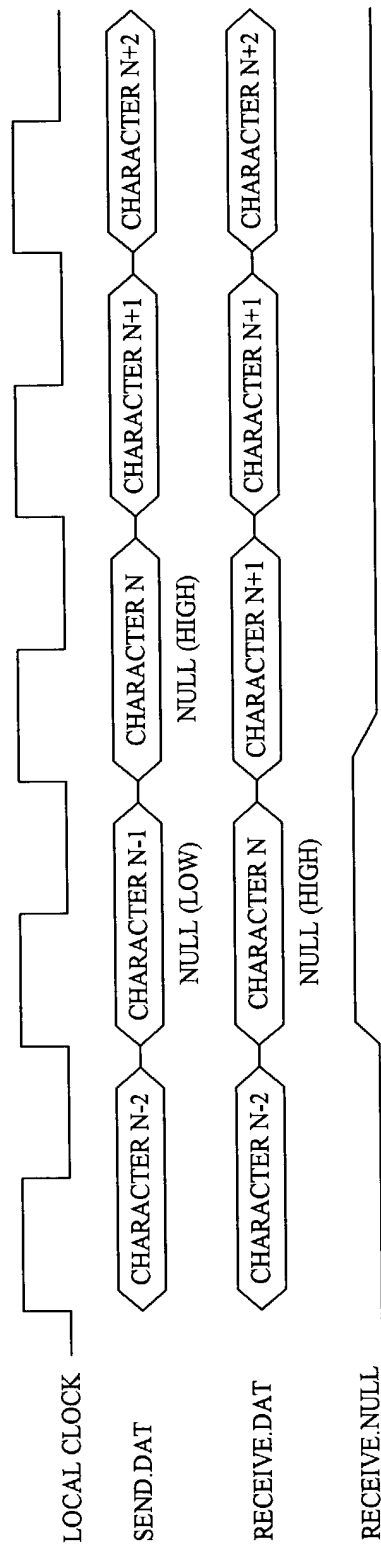


Fig. 49B